

OCT 4 '50

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

AUGUST 15, 1950



*Tsuga Canadensis Fremdi*

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[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

VOL. XCII, No. 4

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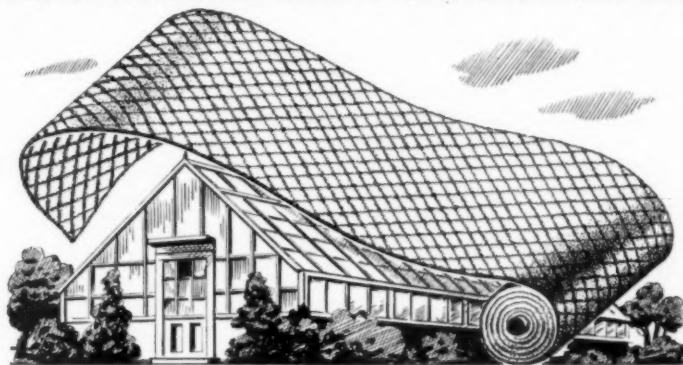
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### Editorial

#### CHANGES IN THE OUTLOOK.

How far the economy of this country will be affected by the United States military activity in Korea, by whatever name it is called, is still undetermined. Administration leaders at the nation's capital, as well as members of Congress, are in no agreement on the course to be pursued. But, at the least, there will be a considerable increase in military expenditures, for improved equipment and greater preparedness, even if the situation takes a decided turn for the better in Korea. Everybody is in favor of rectifying the colossal mistake which occurred when drastic retrenchment was made in expenditures for our army and navy while the other departments of the government spent as freely as ever. Besides larger government expenditures, with subsequent higher taxes, the program no doubt will bring increased employment and, coupled with military enlistments, a more general labor shortage.

If factories resume overtime operations, the public will have more money to spend, despite higher taxes. Nurseryman will, therefore, probably continue to meet a good public demand for their merchandise. On the other hand, they may suffer again, as in wartime, from lack of sufficient manpower to handle orders.

If the situation persists, the boom which the landscape nurserymen have enjoyed in the past two or three years may abate somewhat, while the mail-order firms will benefit as they did in wartime.

Most nurserymen have been keenly interested in laborsaving equipment and programs, which will be of still more importance if the military service and factories drain away workers again. Those nurserymen who are belatedly seeking to buy tractors and other laborsaving machinery may find it difficult to get delivery on their orders. The scare buying that sent housewives to the grocery stores for sugar and other supplies extended to the farmers, and implement dealers have been busy with their order books.

Some controls have already been initiated by the government, chief of which are the restrictions on home building credit. Moves so far made to diminish home construction ac-

tivity have met with approval by the builders. They are already setting a new high on the number of homes built. Construction this year should still total well over 1,000,000 homes, probably about 1,250,000. Either figure would indicate some decline from the rate of the first six months of the year, when housing starts were running at the rate of 1,400,000 a year. But some landscape firms have already felt the effect of a rush to complete these homes and finish the planting about them so that they can be promptly marketed. Until building subsidies to a considerably greater extent than is now indicated, there should be a steady call for nursery stock in that market.

Present sentiment is to defer more controls until such time as price increases or supply shortages indicate actual necessity for them. Voluntary allocations may be tried in the hope of a more orderly economy than was experienced under general government controls in wartime.

In evaluating the necessity for such controls, or the effect of increased military spending upon the nation's economy, it should be remembered that 1950 is a far cry from 1940 in industrial output. Times were slack and unemployment was heavy when the war in Europe began to make heavy demands upon our factories. Now they are running pretty nearly to capacity, and, while government orders will displace some of the goods intended for civilian consumption, the percentage will be far less than during wartime unless the flare-up in Korea turns into a general conflagration.

From these thoughts on the changing outlook, the nurseryman can conclude definitely that the labor market is likely to be more stringent and that there may be delay in procuring equipment and supplies. Foresight in meeting next season's needs in these respects will be repaid.

#### FILL OUT CENSUS FORMS.

If you have not yet filled out the special horticultural census forms you received several weeks ago from the United States Census Bureau, take advantage of the current slack period to do so. These reports are confidential and will only be seen by those in the Census Bureau who compile the trade statistics. The reports are important so that the size and scope of the horticultural indus-

try may be determined accurately. That objective is quite worth the effort it will take for you to fill out the forms and mail them to the Census Bureau.

#### STABLE PRICES.

Most nurseries had all the business they could handle the past spring, and their operators look forward to a similarly favorable year ahead inasmuch as the building of homes continues apace on every hand. Despite the fact that costs are inclined to rise rather than decline, prevailing sentiment seems to augur stable prices. Slight increases in price may be exceptions to the rule, in cases where the supply lags considerably behind the demand.

The foregoing statement has support in a recent price survey made by several of the foremost nurseries in the south, in respect to a dozen of the most popular items used in landscape work, about half of them conifers and the other half shrubs. While there was considerable variation in the price of each item between nurseries, the average prices for the items varied moderately. Increases ranged from none up to twelve per cent, the average on the items being five and one-half per cent. Reflecting the larger amount of stock grown in cans, prices in the area on this stock are likely to be lowered rather than increased, if any changes are made, while large stock in cans will probably remain as before.

Comments received in connection with this survey made it obvious that larger stock is still in short supply. Sales are consuming the plants in small sizes, so that little or none remains to be grown on. This situation is disadvantageous to both wholesalers and retailers, but, until some surplus develops, it is not likely to be altered.

Probably the stable prices on nursery stock are a factor in the continuing strong demand. The public has shown itself more selective in its buying in the past year, and commodities on which marked increases have been made have suffered a slackening of demand. High costs of nursery operation require maintenance of adequate prices. Improvement in production methods, better handling of plants and curtailment of stock losses are about the only methods of obtaining reductions in over-all costs.

# Propagation of Disease-resistant Elms

By T. W. Bretz and Roger U. Swingle

The American elm, one of our mostly highly prized shade trees, is subject to two destructive diseases. Thousands of trees in the lower Ohio and the central and lower Mississippi river valleys are killed each year by phloem necrosis, which is caused by a virus, and heavy losses are suffered in many localities in an area extending from Tennessee to the eastern coastal states by Dutch elm disease, caused by the fungus, *Ceratostomella ulmi*. An outbreak of the latter disease has been found also in Colorado. Because of these losses and the continued spread of both diseases, the selection, breeding and propagation of disease-resistant elms have become increasingly important. Results of studies of methods of propagating elms are given in this report.

Plants grown from vegetative cuttings of selected resistant elms will have the same characteristics as the stock. Although the rooting of cuttings of many woody plant species has been a subject of much investigation, relatively little work has been done on methods of propagating *Ulmus* species by vegetative means. Thimann and Behnke (16), in a comprehensive survey of work done on the vegetative reproduction of woody plants up to June, 1947, list only six references pertaining to the propagation of *Ulmus* species. More recently the successful propagation of selections of *U. carpinifolia* and *U. americana*, as well as other elm species, has been reported (1, 2, 3).

In 1946 the division of forest pathology, bureau of plant industry, soils and agricultural engineering, United States Department of Agriculture, began investigations to develop reasonably simple yet reliable methods of increasing disease-resistant elms by means of cuttings. This work has been conducted at laboratories located at Columbus, O., and Columbia, Mo., in cooperation with the Ohio agricultural experiment station and the Missouri agricultural

experiment station. The initial efforts, which were patterned after the various methods described in the literature for the propagation of woody plant species, were for the most part unsatisfactory. In subsequent trials a large selection of types of propagation materials, treatments and equipment was investigated. From these studies, methods have been developed that have given satisfactory rooting of a number of elm selections. However, no single



Figure 1. Christine Buisman elm root cuttings, showing new shoot and root development about three months after planting.

method has yet proved satisfactory for all of the elm selections investigated.

The various accepted methods for propagation by means of dormant stem cuttings gave inconsistent and generally poor results, and these methods are considered of little practical value in the propagation of elms. Root cuttings, collected during the dormant season, have proved to be the most satisfactory means of propagating the phloem necrosis resistant and Dutch elm disease resistant Christine Buisman selection of *U. carpinifolia* (3). At Columbus, O., during 1948 and 1949, in experimental trials that involved more than 2,000 root cuttings of the Christine Buisman elm, approxi-

mately eighty per cent rooted stock was produced. Equally good rooting was obtained from material collected during the dormant period in November, December, February and March, from 10 to 12-year-old, field-grown trees. Roots one-fourth to one inch in diameter were divided into cuttings two to four inches long. These were inserted in a light, well drained rooting medium from one to five days after collection, with the end nearest the crown of the parent tree uppermost and protruding above the medium. The propagation room used in these trials was illuminated with fluorescent lighting, and an air temperature between 60 and 68 degrees Fahrenheit and a soil temperature of approximately 70 degrees were maintained. The cuttings callused and produced sprouts within two to four weeks after planting. Three months later the new plants were well developed (figure 1) and were transplanted to 3-inch and 5-inch pots, hardened in a coldframe and then lined out in field plantings. A number of different rooting media were tried, and most of them gave satisfactory results. These included soil-sand-peat, bank sand, silica sand and insulation-grade puffed mica. Later trials were confined to a mixture of three parts sand, one part peat and four parts topsoil. Treatment of cuttings with commercially prepared hormone dusts prior to planting did not prove advantageous. In marked contrast to these results, attempts to propagate phloem necrosis resistant selections of *U. americana* by the same methods have been unsuccessful. Only about eight per cent rooted stock has been obtained in trials involving about 1,000 cuttings.

The phloem necrosis resistant selections of *U. americana* have shown much variation in regard to the ease with which they may be propagated. This has been experienced not only in many trials that have been made in attempting to propagate these selections by means of vegetative cuttings, but also in attempts to bud them to *U. americana* and other rootstocks. Apparently this variation is due to differences in the inherent potentiality of the individual selections to produce the regenerative tissues requisite to either graft union or root formation, as the case may be. Such variation has been much less pronounced

T. W. Bretz is pathologist and Roger U. Swingle is senior pathologist, division of forest pathology, bureau of plant industry, soils and agricultural engineering, United States Department of Agriculture, in cooperation with the Missouri agricultural experiment station, Columbia, and the Ohio agricultural experiment station, Wooster. Contribution from the department of botany, Missouri agricultural experiment station. Journal series No. 1211.



in material used from miscellaneous, nonresistant American elm selections. Additional factors, of course, are known to be important in influencing the rooting of cuttings. Some of these factors are the age of the tree from which cutting material is taken, the environment in which the parent tree has been growing, the source of the cutting material from a given tree, the time of year at which cuttings are taken, the use of root-inducing chemicals and the environment of the cutting bench. The last-named has proved to be important in determining the success or failure in rooting leafy stem cuttings and leaf bud cuttings of field-grown elm species and selections.

The use of the conventional sash-covered greenhouse propagation bench, with periodic syringing of the cuttings, was found to be unsatisfactory for the rooting of leafy elm cuttings taken in May and June from field-grown, phloem necrosis resistant selections. Wilting and the subsequent deterioration of the cuttings could not be prevented. Some rooting was obtained with cuttings taken from young (1 to 2-year-old) miscellaneous *U. americana* trees and from basal sprouts developing from elm stumps. A high percentage (average eighty-two per cent) of root strike was secured, however, when cuttings were taken from small, potted, greenhouse-grown seedlings of this species. It was also observed that rooting could be increased materially when older field-grown stock was potted and grown under greenhouse conditions for a period of thirty to sixty days prior

to taking cuttings from the trees. Just what factors may be involved in the conditioning of the trees by this greenhouse exposure, which results in an increase in the percentage of rooting of material taken from them, are not known.

The use of opaque, fluorescent-lighted propagation boxes like those developed by Stoutemyer, et al. (15), at the United States plant introduction garden, at Glenn Dale, Md., was thoroughly tested because of the excellent results reported in rooting difficult material by this method. Leafy softwood or hardwood stem cuttings from miscellaneous and phloem necrosis resistant field-grown American elms collected at approximately monthly intervals throughout the year were used. Despite the high relative humidity maintained by the use of puffed mica as the rooting medium in these boxes, rapid and permanent wilting of the leaves occurred and the cuttings deteriorated rapidly without root development.

Since wilting of leafy elm cuttings appeared to be a major obstacle in rooting such material, it became evident that some means of maintaining the turgidity of the cuttings until roots could be initiated were prerequisite to success. Propagation of plant materials under mist has been reported by a number of workers using various types of humidification systems (4, 5, 6, 7, 8, 9, 10, 12, 13, 14). In general, these systems require the use of mechanical humidification units or the installation of nozzles or atomizers requiring the use of compressed air. Mistig devices that operate at normal city

water pressures, such as those designed for use over open vegetable display counters to keep green produce in a fresh, crisp condition, were tried in 1947. Their usefulness in maintaining the conditions requisite for rooting of leafy elm cuttings was established, and they have since been used with good results. The use of these and similar devices to maintain a constant wetting of the plant material in propagation benches has been reported recently (1, 11).

In the work reported here, enclosed chambers made of tightly stretched muslin over a wooden frame or glass window sash were constructed over sections of a greenhouse bench (figure 2). The misting heads were kept in constant operation after the cuttings were placed within the enclosure. River sand, a No. 7 grade silica sand, and puffed mica were used as rooting media. All gave satisfactory results. Maximum drainage of the rooting medium was provided to prevent waterlogging and to provide adequate aeration for the submerged stem tissues. Under the conditions of the supersaturated atmosphere thus provided within the chambers, succulent, leafy cuttings remained turgid at all times, even under extremely high, summer temperatures. Little deterioration of tissues from rot-producing organisms occurred.

The results obtained under constant mist with leafy stem cuttings from 8-year-old, field-grown, phloem necrosis resistant *U. americana* trees, collected in May and June, were generally far superior to the results obtained with similar material planted under other environmental conditions. Nevertheless, much variation in the percentage of root strike was noted between individual selections of this resistant stock. Cuttings from some selections rooted poorly or not at all, whereas 100 per cent root strike was frequently obtained with material from other selections. The cuttings made from all of these selections were collected at the same time, were, so far as could be determined, of comparable woodiness and maturity, were collected from the same relative positions on the parent trees and were handled in identically the same way between the time of collection and planting. The extreme variation in the subsequent rooting of the different selections suggests that marked differences in the inherent potentiality for rooting exist among these selections.

Some cuttings from each selection were treated prior to planting with

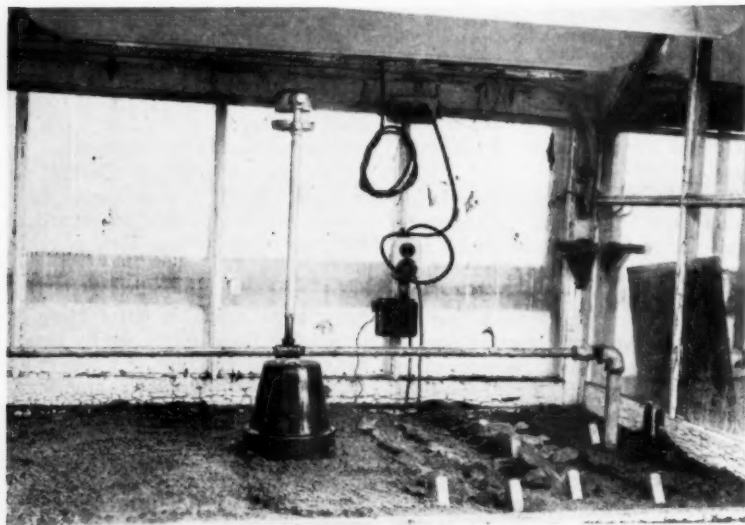


Figure 2. Section of glass-enclosed greenhouse propagation bench, showing misting head used to provide constant wetting of plant materials.



a commercially prepared hormone dust (indolebutyric acid in talc), and comparable lots received no treatment. The average percentage of root strike for all selections in the treated and nontreated lots showed no significant differences, indicating that no material benefit was derived from treatment. For the May collections, the over-all average root strike, after four to six weeks, for all selections was forty-five per cent in the untreated series and fifty per cent in the chemically treated series. June collections gave an over-all average root strike for all selections of forty-eight per cent for the untreated cuttings and fifty-three per cent for those chemically treated. It should be mentioned, however, that marked benefits were obtained from treatment of some selections, the percentage of root strike being increased as much as forty to sixty per cent over that secured in nontreated lots of the same material. Apparently the more inherently difficult the material was to root, the more marked was the response to treatment with root-inducing chemicals. The cuttings were made from the current year's growth. They were four to six inches in length, with the basal end cut at or just below a node. The leaves were removed from that portion of the cutting to be inserted in the rooting medium. The remainder of the foliage was left intact. Cuttings taken from suckers or water sprouts in general rooted more readily than cuttings taken from the crown of the tree.

Leaf bud cuttings, consisting of leaf blade, axillary bud and a shield of stem tissue, collected in May and June, have given uniformly satisfactory results when placed under constant mist. May collections from 8-year-old, phloem necrosis resistant American elms, which received no treatment prior to insertion in the rooting medium, showed an average of sixty per cent rooting six weeks after planting. Identical material, treated with the hormone dust before planting, showed an average of eighty-four per cent rooting. Collections made in June and receiving no treatment prior to planting averaged fifty-nine per cent rooting after six weeks. Identical material given the dust treatment prior to planting averaged eighty-nine per cent rooting. Some rooting was obtained in material from all selections when given the dust treatment, whereas a few selections failed to root at all when left untreated. The primary roots branched profusely within a

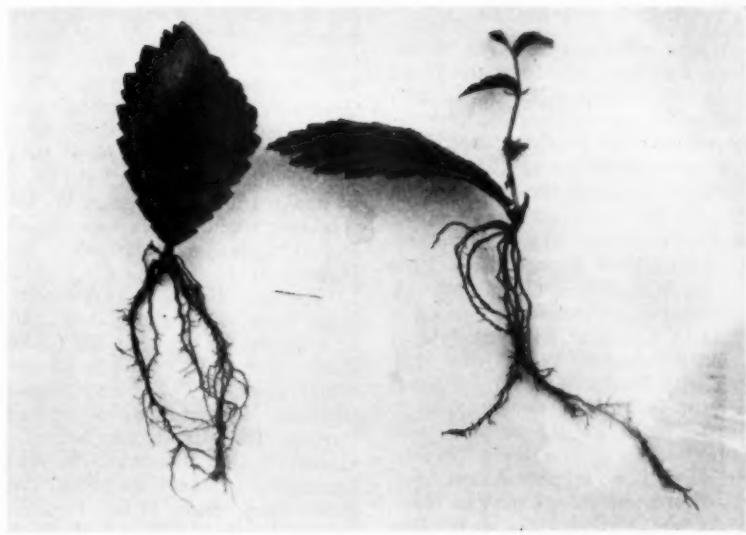


Figure 3. *Ulmus americana* leaf bud cuttings four weeks after planting in greenhouse propagation bench under constant mist.

few weeks. In some instances, growth of the axillary bud began immediately, and a new individual was well developed by the time the cuttings were removed from the rooting medium (figure 3). More frequently, however, the buds remained dormant and did not begin growth for some time after the cuttings were removed from the propagation bench. Leaf bud cuttings have been superior to softwood stem cuttings in respect to survival of the transplanted rooted stock.

The rooting of a number of other plant materials under constant mist has been investigated to a limited extent. Leafy stem cuttings of *Ficus elastica*, *Hedera helix* and *bougain-*

*villea*, *fuchsia* and *rosa* species have rooted well. Rooting of leaf bud cuttings of *Ulmus pumila*, *U. fulva*, *U. thomasi*, *U. carpinifolia* (Christine Buisman selection) and hybrid chestnut has been secured. However, the rooting of *U. carpinifolia* was weak, and these cuttings failed to survive transplanting. The hybrid chestnut cuttings had not developed new individuals from their axillary buds by the season's end, although they were strongly rooted.

Sections of elm leaf blades and entire leaves, including the petioles, have been rooted without difficulty when inserted in the rooting medium and exposed to constant mist. In the leaf blade sections, root development occurred where the midrib or lateral leaf veins had been severed. When entire leaves with petioles were used, roots originated at the base of the petiole. Although root development in all cases was strong and a profuse root system developed over a period of several months, there was no indication of stem bud initiation by the end of the growing season, at which time these cuttings were discarded. Leaflets of peony likewise rooted well under conditions of constant mist in the greenhouse chambers. Profuse root development and the subsequent development of fleshy, storagelike tissues had occurred at the base of the petioles by the end of the season. Whether these tissues may eventually produce new peony individuals is not yet known.

Preliminary trials have been made with the use of constant mist in an outdoor, lath-covered coldframe (figure 4). Elm leaf bud cuttings,

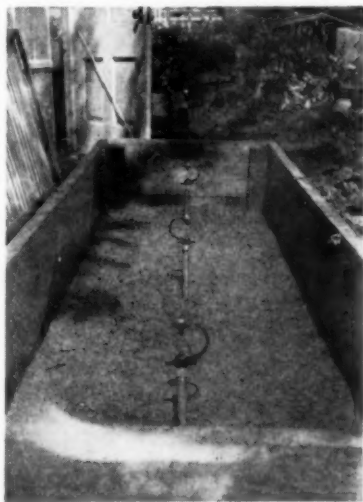


Figure 4. Outdoor, lath-covered coldframe equipped with nozzles for propagation under constant mist.

[Continued on page 65.]

### A. A. R. S. COMMITTEES.

When All-America Rose Selections, Inc., met July 16 at the Hotel Statler, Washington, D. C., the officers and board of directors were re-elected and the publicity committee was reappointed for another year.

The committee, composed of Charles H. Perkins, of Jackson & Perkins Co., Newark, N. Y., chairman; Charles S. Burr, of C. R. Burr & Co., Manchester, Conn.; John A. Armstrong, of Armstrong Nurseries, Ontario, Calif., and Robert Pyle, of Conard-Pyle Co., West Grove, Pa., met with President Eugene S. Boerner, of Jackson & Perkins Co., to discuss plans for the ensuing year. Other officers reelected besides President Boerner were Albert Morris, of Western Rose Co., Van Nuys, Calif., vice-president, and W. Ray Hastings, Harrisburg, Pa., secretary-treasurer.

The board of directors consists of Leon deStaute, Howard & Smith, Montebello, Calif.; J. A. Armstrong; Charles H. Perkins; L. A. Dean, Arp Nursery Co., Tyler, Tex., and George Welch, Mount Arbor Nurseries, Shenandoah, Ia. The president and vice-president are also directors, and L. C. Bobbink, Bobbink & Atkins, East Rutherford, N. J., is a director for life.

Other committees appointed were: Test garden, Robert Pyle, chairman; Keith Monahan, Howard Rose Co., Hemet, Calif., and Leslie Sjulín, Inter-State Nurseries, Inc., Hamburg,

Ia.; rose variety selections and recommendation, A. D. Vanderkraats, Paramount Nurseries, West Grove, Pa., chairman; William S. Clark, Germain's Valley Nursery, Van Nuys, Calif., and Gerard K. Klyn, Mentor, O.; national capital parks rose consultants, Robert Pyle, chairman; Gerard K. Klyn, and W. Ray Hastings; trade-mark committee, Robert Pyle, chairman; W. Ray Hastings; L. Richard Guylay, L. Richard Guylay & Associates, New York city, who handle public relations for the A. A. R. S., and Harry Robb, Jr., patent attorney, Washington, D. C., and scoring schedule, Herbert S. Swim, research director for Armstrong Nurseries, Ontario, Calif., chairman; Dr. W. E. Lammers, of the Rancho del Descanso, La Canada, Calif.; Fred Edmunds, Portland, Ore.; E. A. Pfister and Prof. E. C. Volz, Ames, Ia.

While at Washington, D. C., President Boerner presented a bouquet of prize-winning All-America roses to Sen. Margaret Chase Smith, of Maine, as a gift from the organization, and they were photographed on the steps of the Capitol building.

### NEW ILLINOIS HEAD.

Dr. C. J. Birkeland was appointed head of the department of horticulture at the University of Illinois by the board of trustees July 25.

He had been acting head since the sudden death of Dr. Bryan L. Wade

last year. As professor of pomology and pomological research, he succeeded Dr. M. J. Dorsey in that field upon the latter's retirement.

### OAK WILT COMMITTEE.

Leaders in the industrial production of hardwood lumber are now seriously concerned with oak wilt disease in the upper Mississippi valley. A national oak wilt research committee was organized at an industry conference at Memphis, Tenn., to act as liaison agent between the hardwood lumber industry and the government in a survey to determine the areas of infection.

The committee will be concerned with devising control and check measures and publicizing the survey project. It will also serve as a clearinghouse for factual information on oak wilt disease.

Representatives of ten lumber associations will make up the research committee. Chairman is Leonard R. Steidel, production manager, Cooperage Division, National Distillers Products Corp. Henry H. Willins, National Oak Flooring Manufacturers' Association, will serve as secretary-treasurer.

A conference on oak wilt for pathologists, entomologists, foresters and lumber leaders in the eastern United States is expected to be held in the near future. It will probably concern such matters as identification of oak wilt, how serious it is, whether the eastern oak forests are endangered by the disease and what should and can be done about it.

H. W. D.

### TREE PRUNING RISKY.

Tree pruning ranks as the thirty-fourth most hazardous occupation among the 584 industries rated by the compensation insurance rating board, according to the New York state department of labor. Workmen's compensation insurance rates are determined in New York state on the basis of the accident history of each industry. Tree pruners must pay a rate of \$10.96 per \$100 of their payroll in sharp contrast to an 11 cents per \$100 payroll rate that is paid by clerical office workers, one of the least hazardous occupations.

SHRUBS and perennials are grown at Bannon's Gardens, 2951 Arkansas street, Wichita, Kan.

NEAL GARDENS are the new nursery recently started by E. A. Neal, 966 West Main, Platteville, Wis.



Publicity committee and president of All-America Rose Selections, Inc. Left to right: Charles H. Perkins, Charles S. Burr, President Eugene S. Boerner, John A. Armstrong and Robert Pyle.

# Forestalling Insect and Disease Damage

By M. B. Cummings

Many small details in the nursery and sometimes even large ones can be attended to now to save much trouble and expense later on. Small things which are left unattended often lead to large problems in the near future.

The practice of forestalling troubles, such as misshapen specimens or possible damage to stock from insects or diseases, is a good one and should not be minimized at any time of the year. It is a good time now between the rush of spring sales and those of the fall season to make an inventory of prospective troubles. A survey of the entire nursery area each week throughout the summer is none too often. In this connection it is well to recall the adage, "A stitch in time saves nine," which, translated into nursery economy, means \$1 or an hour spent now may mean \$9 or nine hours saved at a later date. A progressive nurseryman is one who anticipates troubles and plans to forestall them. This is good economy. Date lines and strategy do have a place in nursery practice. In fact, strategy is more than mere practice in the nursery; it is a fundamental principle of action at all times of the year, but especially in the summer when most of the undesired problems make their appearances. It is well to look for the index signs in good season.

Every nurseryman may be his own inspector to a certain extent and search for things in the nursery that need attention without waiting for the state inspector to point them out. The owner may survey his nursery if he is equipped to inspect it. He can easily carry a pair of small pruning shears, a hand lens, a notebook and a pencil to facilitate his making notations of any troubles and places where they occur, so that they can be attended to promptly. But, above all, the nurseryman needs sharp eyes and a probing spirit to detect in advance what harm may come or what benefits may accrue if prompt attention is or is not given now to the little problems. Avoiding trouble definitely means saving money.

Poorly shaped trees and shrubs need attention early, when they are young and small. Injurious insects and diseases start their damage in a small way and seem insignificant at the beginning. If neglected for a

considerable time, they soon become serious; consequently, labor and expense are essential to control them or remedy their results.

As a conscientious nurseryman goes about the nursery, he may see here and there a single tree that needs balancing for strength and beauty. A little trimming may do wonders for a specimen. A pair of small hand pruning shears can be useful in shaping specimen trees. Forked trunks or branches that threaten weakness and early breakdown can be easily corrected. The Y-shaped branches need to be reduced to one branch, and an extra-long branch that extends far beyond the others needs shortening to balance the top of the tree.

A single branch on a tree or shrub apart from the others may become infested with some injurious insect or destructive disease, while the rest of the specimen is clear and healthy. If the unhealthy part is severed, the whole specimen may be spared and much trouble prevented. Tent caterpillars and fall webworms are examples of localized and incipient insect troubles. Pear blight and cedar apple rust are also localized diseases at first which can be suppressed in their initial stages.

Brown tips on spruces and pines are the signs of infestation by weevils, which are small insects that work under the bark and cause the death of the tip of the tree. The remedy is to cut back the top of the tree below the lowest point of injury and to burn the severed tip to kill the weevils and to prevent their spreading and multiplying.

Trunk-boring insects are a menace in any nursery. They occur at the base of apple and pear trees and in the lower trunks of mountain ash and willow trees. If one tree has these borers, others may soon have them. A general infestation of trunk borers threatens the life of many species. If the insects are undetected and an infested plant is sold, a dissatisfied customer is the result. Cases of this type can be forestalled by the self-inspection survey which will reveal any such trouble before it is too far advanced.

Collecting and destroying egg clusters are simple tasks. The work takes little time and may save the nursery from a horde of insects in another season. Egg clusters of tent

caterpillars may be seen in August and for weeks thereafter on apple and cherry trees and on some other trees. Eggs are laid on small twigs and form a band or belt around the twigs. They are inconspicuous, as they are colored much like the twig to which they are attached. Destruction of these eggs may prevent the hatching of hundreds of destructive worms. In the fall the nests of webworms and of brown-tail moths may be collected or cut from the trees, and a spring brood of numerous caterpillars is disposed of in an economical way. In September the white patches of eggs of the white-marked tussock moth may be found on the underside of leaves of apple trees in the nursery.

When the nurseryman considers all the different troubles which may occur, he sees that in the nursery an ounce of prevention is always worth a pound of cure. Forestalling troubles is always more economical than correcting them. It costs less in time and in labor, and it averts the loss of good nursery stock. Keeping nursery trees and shrubs cleaned up and healthy, with diseases attended to in their initial stages, gives a wholesale atmosphere to the property, and the nursery's customers appreciate this security.

## GARDNER'S FIFTIETH YEAR.

This year Gardner's Nurseries, at Rocky Hill, Conn., are celebrating their golden anniversary. Founded by R. H. Gardner, the nurseries specialize in growing the finished product ready for resale by the wholesale trade. In 1927, Mr. Gardner's 16-year-old son, R. H. Gardner, Jr., became a partner in the business, and the younger son, Marshall L., joined the firm two years later.

Predominating the business are 300 acres of ornamental nursery stock, yews and hemlocks. Apples are also grown, and the nursery has about 15,000 bearing trees planted on 400 acres. Sometimes the Gardners store deciduous nursery stock in their modern cold-storage building that can take care of 90,000 boxes of apples.

A NEW nursery being started this fall is Scott & Son, Livermore road, Owensboro, Ky., operated by L. Riley Scott, Jr.



# Pointers on Propagation

By James S. Wells

## THE QUESTION OF TIMING.

The vital importance of correct timing in any operation to do with plant propagation cannot be over-emphasized. Especially is this true when we attempt to propagate some of the more difficult items. For despite all the modern aids which we now have, such as special rooting media, temperature control and plant hormones, the skill of the nurseryman still must be exercised to the full in deciding just when is the right time to do the job. When two growers get together and start talking about propagation, almost the first questions that will pass between them are, "And when did you take the cuttings?" or "What time did you graft?"

Much information is now available for the keen propagator, giving details on controlled experiments which have been carried out on different phases of plant propagation in many parts of the world, and I believe that some of the most valuable data contained in these reports relate to the timing of the various operations. But, as with almost all of the work which we carry out day by day, this information has to be applied with common sense and skilled judgment to fit local conditions. How is it possible, then, for the small propagator, who has perhaps only limited experience,

to judge when is the right time to take the cuttings or to do whatever operation he has in mind? First of all, he must obtain what information he can from the published sources which are available.

Two books in particular come to mind as being of paramount importance. One is "Growth Substances and Their Practical Importance in Horticulture," by H. L. Pearce, published in England by the Commonwealth Bureau of Horticulture and Plantation Crops. The other is "The Use of Auxins in the Rooting of Woody Cuttings," by Kenneth V. Thimann and Jane Behnke, published under auspices of Harvard Forest, Petersham, Mass.

While both of these deal primarily with the use of plant hormones, they also indicate the time of year which proved most successful in the various experiments. It should be borne in mind that the use of hormones as an aid to propagation is not designed to upset normal propagation practices, but to aid and assist them. If a plant will root best in November with hormones, we can presume it will still root best in November without them, and therefore the timing of these experiments can be taken as an accurate guide for propagation work.

But now let us consider briefly one or two plants which we are propa-

gating at this time. I shall endeavor to describe the difference between good and bad propagating material and the effect of timing upon the material used.

Consider magnolias first. The propagating of these plants from cuttings is now standard practice; yet the percentage of take which different growers obtain varies widely. Technically, it should be possible for all growers to obtain an eighty or ninety per cent stand, but I wonder how many of us do so. To be specific, we have found that the wood for cuttings of magnolias has to be partly hardened up after the surge of spring growth. One of the accompanying illustrations shows what we consider to be bad and good cuttings. A shoot from a side branch which has grown perhaps to three or four inches in length this spring, has stopped growing early in July and has commenced to form a flower bud at the apex of the shoot is in the right condition to take as a cutting. Now this condition may not arrive until late in July or even in August in some localities, whereas farther south cuttings may be in a fit condition late in June. Weather and soil conditions affect the growth of the plant and, consequently, the timing of the propagation work, and it requires the keenest observation and skill on the part of the propagator to determine just when the wood is in the right condition. In general, when using hormones we believe it best to err on the side of using fairly well ripened wood rather than soft material. This is certainly true with magnolias, but, of course, when one deals with such plants as lilacs, then the softer the wood, the better. It is these apparent contradictions which have to be learned, perhaps painfully, over a number of years. But, at the same time, they make the work of plant propagation vitally interesting.

When hormones are used for the propagation of cuttings, this brings in a further factor which may affect our judgment as to timing. For instance, our experience last year with rhododendron cuttings would suggest that the middle of July is too early to take the cuttings and that better results would be obtained if this operation were deferred until mid-August or even later. By doing so, one is able to treat the cuttings with a much stronger concentration of hormones, for the cuttings will stand this when hardened up a little more. Not only will they stand it, but they will respond vigorously, and the percentage of rooting should



Above: At left, a good cutting of *Magnolia soulangeana* in the right condition for making. At right, poor cutting material of the same variety.

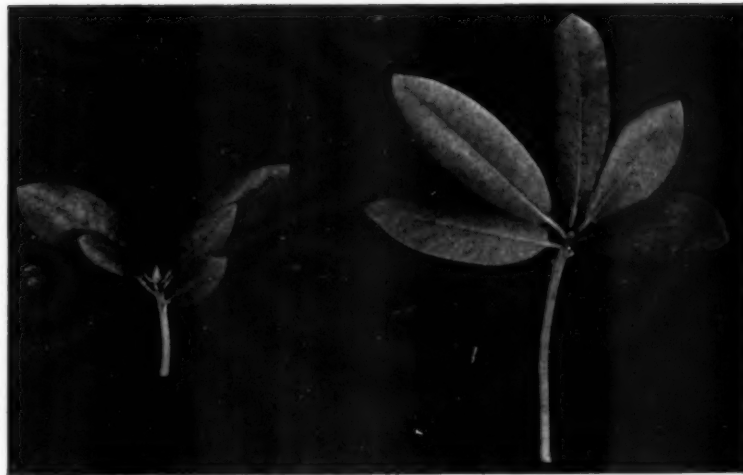
Below: The same two cuttings after making.



be higher. We are running experiments at this time in an effort to decide just what is the best timing for rooting cuttings of the red types of rhododendrons. We are taking a batch of cuttings every two weeks, giving them the same series of hormones and wounding treatments and putting them in our greenhouse, which is now fitted with a humidifying system. We believe that this experiment should show a definite period in the propagating season at which we will have obtained a higher percentage than at any other time. Then, working from these data, we hope to extend our production of own-root rhododendrons in the red varieties. An accompanying illustration shows as clearly as is possible the difference between good and poor propagating material for rhododendrons. The cutting on the right has been taken from a plant growing rapidly with soft, lush growth, and it will be seen that the stem of the cutting is irregular in shape and immature in appearance, while the converse is true of the cutting on the left. It is difficult for unskilled workers to differentiate between these two types of cuttings, especially at this time of the year when both types are freely available on the same plant. This is another reason why we are deferring our main propagation work on rhododendron cuttings until late August or September, for at that time the percentage of cuttings which will be fit to take will be much higher.

For azaleas also one must wait until the vigorous spring growth following flowering has hardened the wood into a firm condition. By firm we mean that when the branches are bent by the finger there should be a springy feeling of resistance. Generally speaking, in our locality in south Jersey azalea cuttings are ready to take about July 10, for at that time the first surge of spring growth is complete and the cuttings are hard enough to take. We have successfully rooted azaleas taken from 2-year-old twiggy wood in the middle of the winter, material which would be considered the most unsuitable of all for propagating. Rooting was slow, but losses were practically nil.

There is much work yet to be done on this question of timing. We have already mentioned lilacs, and those of you who are propagating them on their own roots know how critical is the period in which cuttings can be rooted at the end of April or early May. There are clear indications also that taxus and other evergreens



At left, a good rhododendron cutting—plump, mature wood of medium size. At right, a poor rhododendron cutting—soft, sappy growth. Note the streaks on the stem, which indicate rapid, soft growth.

root much more readily after they have been subjected to one good frost, although no obvious reason can be found for this. Many plants which we now consider difficult or impossible to root may well respond once the narrow period has been established in which the material will root. If anyone is interested in doing a little experimenting on this subject, then here surely is a wide-open field.

#### SPACED PINE SEEDLINGS EQUAL TO TRANSPLANTS.

By growing 3-0 white pine seedlings at a nursery density of about twenty-five per square foot, stock comparable to 2-1 transplants can be produced at a lower cost, according to an experiment conducted at the government nursery at Hayward, Wis. Results of the experiment were recently reported by Joseph H. Stoeckeler, forester, in technical notes 339 of the Lake States forest experiment station, University Farm, St. Paul, Minn.

Trees were grown for three years in nursery beds at six densities ranging from thirteen to eighty-one per square foot. Each density was replicated four times. Samples of the trees were measured, and 100 trees from each of the twenty-four nursery beds were field planted in the fall. A lot of 2-1 white pine was planted for comparison, thus making a total of 2,800 trees in the field plots.

Tabulation of the results showed that, in the range tested, the denser the trees were grown, the taller and spindlier they became, the lower their weight and quality, the high-

er the ratio by weight of top to root and the poorer the field survival.

The plants in two density classes, thirteen and twenty-six to the square foot, compared favorably with the 2-1 transplants in top length, root length and stem caliper. Their fresh weight was greater, but the top-root ratio by weight was higher. These two density classes had field survivals almost as good as 2-1 transplants.

In spring planting, density of beds and balance of stock is not quite so critical, and first-year survivals of over ninety per cent were obtained on favorable sites from 3-0 stock grown as dense as fifty per square feet in the nursery.

#### PEACH CROP LIGHT.

As they begin their picking, Illinois peach growers look forward to the smallest crop in twenty years. Their prediction is that the state's crop will be less than one-fifth of last year's bumper yield and less than one-third of the average annual production in the past ten years. Prices are likely to be substantially higher than a year ago.

Factors in the small crop were the warm weather last January followed by a sudden freeze, frost in mid-April and hail in May.

THE board of appeals has reversed the verdict of the zoning board of Avon, Conn., and finds that Julius Rottenberg is not violating the town's zoning laws by establishing a nursery on a corner of West Avon road and Sunset drive. Mr. Rottenberg operates the Northern Landscape Tree Farm.

# The Best in Taxus

By L. C. Chadwick

Few narrow-leaved evergreens have enjoyed the popularity of the yews in the past two decades. The genus *taxus* constitutes an outstanding group of plants. They are hardy evergreens, varying greatly in size and shape and having outstanding foliage and fruit. They are adaptable to a wide range of environmental and soil conditions and, consequently, lend themselves readily to landscape use. They are as free of troublesome insects and diseases as any group of narrow-leaved evergreens. In planting, good soil drainage should be provided.

According to Rehder in his "Manual of Cultivated Trees and Shrubs" (1940), *taxus* is a genus composed of seven species and some twenty-three varieties. Of the species listed, *baccata*, *canadensis*, *cuspidata*, *hunnelliana* and *media* are generally available in the trade, or at least represented by some varieties or clones. *Taxus brevifolia*, the western yew, and *Taxus chinensis*, the Chinese yew, are not generally available in the midwestern and eastern parts of the United States.

Because of the great demand for *taxus* and the ease in propagating it by seeds, many variations in form and foliage have appeared in the trade. While a complete survey has not been made, it is probable that at least 135 species, varieties, clones and forms of *taxus* have been offered by the nursery trade at one time or another. Undoubtedly, there have been duplications in this number of types, but the list is large, even discounting the duplications. While considerable variation in size, form and foliage is desirable for effective landscape plantings, such a large number of types, many showing only minute variations, is not necessary.

The great interest in *taxus* prompted the department of horticulture at Ohio State University in 1941, in cooperation with the Ohio agricultural experiment station and the Ohio Nurserymen's Association, to undertake a project to (1) establish a complete collection of *taxus*, (2) check the trueness to type and the nomenclature of the many species, varieties, clones and forms and (3) to determine the adaptability of *taxus*

to Ohio conditions and similar territories.

Needless to say, the project has not been completed, but considerable progress has been made. In the collection at the Ohio agricultural experiment station 448 plants, representing ninety-five species, varieties, clones and forms, have been planted. Some twenty additional types, too small to be placed in the permanent planting, are being grown on for later planting.

In preparing this discussion, an attempt has been made to select the best of the *taxus*. This has been a difficult assignment, since many of our plants have not reached sufficient size to enable us to ascertain their true value. The selection is based on our present information.

## THE BEST OF THE TAXUS

- (1) **Creeping.**  
*Taxus canadensis*, Canada yew.
- (2) **Low types, 1 to 4 feet.**
  - (a) **Spreading with drooping branchlets.**  
*Taxus baccata repandens*, spreading English yew.
  - (b) **Dwarf, compact, rounded or globose types.**  
*Taxus cuspidata densa*, cushion Japanese yew.  
*Taxus media wardi*, Ward Anglojap yew.
  - (c) **Dwarf, compact and flat-top type.**  
*Taxus cuspidata nana*, dwarf Japanese yew.
- (3) **Small types, 4 to 6 feet.**
  - (a) **Slow-growing, bushy, upright-spreading types.**  
*Taxus cuspidata aurescens*, goldtip Japanese yew.  
*Taxus cuspidata intermedia*, intermediate Japanese yew.  
*Taxus media browni*, Brown Anglojap yew.  
*Taxus media cliftoni*, Clifton Anglojap yew.  
*Taxus media kelseyi*, Kelsey Anglojap yew.
  - (b) **More rapid-growing, broad, upright-spreading types.**  
*Taxus media hatfieldi* (spreading), spreading Hatfield Anglojap yew.
  - (c) **Narrow, upright types.**  
*Taxus baccata fastigiata*, Irish English yew.  
*Taxus cuspidata columnaris*, column Japanese yew.  
*Taxus media hicksi*, Hicks Anglojap yew.
- (4) **Medium types, 6 to 10 feet.**
  - (a) **Broad, pyramidal types.**  
*Taxus media hatfieldi*, Hatfield Anglojap yew.
- (5) **Large types, 10 to 25 feet.**  
*Taxus cuspidata capitata*, upright Japanese yew.

There are several other types that look promising and may, with more observation, replace some of those on the selected list.

In order to get a cross section of opinion, a selected list of *taxus* was sent to twenty-five outstanding nurserymen and landscape nurserymen, asking for their opinions and criticisms. Nineteen replies were received, and, as expected, opinions differed considerably, several having their own pet likes and dislikes. Undoubtedly, climatic and environmental conditions are responsible for some of the differences of opinion.

It would seem to me that, to judge *taxus* properly, it would be advisable to group the plants into fairly definite classes. In preparing the attached list I have grouped the selected types into various groups and further classified them under habits of growth. This procedure gives an opportunity to select the best within the various size groups and growth habits.

Sixteen types are included in the list. All except one, *Taxus canadensis*, which will be discussed later, are outstanding types, although perhaps occasionally limited in their use in some localities because of climatic conditions. It might be interesting to note that in a compilation of the results of the survey of nurserymen and landscape nurserymen mentioned above, the following were designated as the outstanding types: *Taxus baccata repandens*, *T. cuspidata nana*, *T. cuspidata intermedia*, *T. media browni*, *T. media columnaris*, *T. media hicksi*, *T. media hatfieldi* and *T. cuspidata capitata*.

Time will allow only a few brief comments about the selected types.

### Creeping Types.

Unfortunately, there is not a good creeping form of *taxus*. *Taxus canadensis* is the only type we have, and it is satisfactory only for naturalistic planting in moist, shady situations. It is not recommended for production.

### Low Types, 1 to 4 Feet.

The low types of *taxus* are grouped into three classes, varying in form and habit of growth.

*Taxus baccata repandens*, the spreading English yew, is an excellent plant in spite of the fact that it may be slightly tender. In the sur-

Paper presented by Dr. L. C. Chadwick, professor of horticulture at Ohio State University, at the convention of the American Association of Nurserymen at Washington, D. C., July 18.



\*Patent Number 2073695

## PRICE LIST AND SPECIFICATIONS

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
<b>SPECIAL LIGHT</b>	(Packed 200 in carton)			Per 200	Per 200	Per 1000	
No. 0	5 1/2 ins.	5 ins.	6 ins.	25 lbs.	\$5.00	\$22.50	
No. 1	6 1/2 ins.	6 ins.	7 ins.	37 lbs.	7.00	32.50	
No. 2	9 1/2 ins.	7 ins.	8 ins.	50 lbs.	8.00	37.50	
<b>STANDARD HEAVY</b>	(Packed 100 in carton; 300 or more at 1000 price)			Per 100	Per 100	Per 1000	
No. 0	5 1/2 ins.	5 ins.	6 ins.	35 lbs.	\$3.00	\$27.50	
No. 1	6 1/2 ins.	6 ins.	7 ins.	52 lbs.	4.25	40.00	
No. 2	9 1/2 ins.	7 ins.	8 ins.	78 lbs.	4.75	45.00	
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.25	50.00	
<b>EXTRA-HEAVY</b>	(Packed 25 in carton)			Per 100	Per 25	Per 50	Per 75
No. 4	13 ins.	12 ins.		200 lbs.	\$6.25	\$12.50	\$18.75
					Per 100	Per 1000	
					\$22.50	\$200.00	

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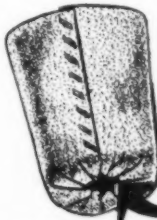
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### Ready for Fall Delivery

#### 1. AZALEA HINODEGIRI (Crimson Azalea).

Dwarf, very compact, evergreen azalea. Heavy glossy foliage, hardy in western Oregon. When in bloom the plant is completely covered with bright red flowers so that the foliage is hidden. One of the most showy and one of the most popular of dwarf ornamental shrubs.

	Each	10	100	1000
6 to 9 inches, twice transplanted specimens, BR.....	\$0.50	\$4.50	\$41.00	....
9 to 12 inches, twice transplanted specimens, BR.....	.65	5.90	53.00	....
If you desire the above two grades B&B, add 15c per plant.				
12 to 15 inches, twice transplanted, B&B.....	.95	8.60	77.00	....

#### 2. CASTANOPSIS SEMPERVIRENS (Bush Chinquapin).

One of Oregon's wonderful native evergreens seldom offered to the trade. Unlike the tall-growing form, Bush Chinquapin usually grows only 5 to 6 feet high in a spreading, much-branched shrub. A plant 4 feet high will usually spread 4 to 6 feet. A stout medium-size evergreen of surpassing merit. It grows in its native state at 2,000 to 4,000 feet elevation, but is at home at sea level. In our mountains it sometimes covers dry open slopes where only the hardiest plants can survive the summer's heat and winter's cold. It is also found in open woods with partial shade. Foliage very dense. Leaves dark green above, russet beneath. Flowers in white clusters followed by chestnutlike fruits. Bush Chinquapin is a fine foundation shrub, also good for hedges and borders. It is unexcelled for large banks and terraces. A fine addition for the trade.

	Each	10	100	1000
6 to 9 inches, twice transplanted, field-grown.....	....	....	15.00	\$120.00
9 to 12 inches, twice transplanted, field-grown.....	....	....	18.00	144.00
12 to 15 inches, twice transplanted, field-grown.....	....	....	21.00	168.00
12 to 15 inches, twice transplanted, B&B.....	.75	6.80	61.00	....
15 to 18 inches, twice transplanted, B&B.....	.90	8.10	73.00	....
18 to 24 inches, twice transplanted, B&B.....	1.10	9.90	89.00	....

#### 3. ERICA MEDITERRANEA HYBRIDA (Darley Heath).

This is one of the most attractive and desirable plants in its class grown in our nursery. It is hardy and dwarf, seldom reaching more than one foot in height. It has beautiful, dense, dark green foliage, and from early winter to late spring is covered with such a profusion of lovely purplish blooms that the foliage is practically obscured. It is not unusual to see this brave little plant blooming through the snow. Being a winter bloomer, hardy, equally good for rockeries, borders, groups and masses, it should be included in every planting.

	Each	10	100	1000
6 to 9 inches, twice transplanted specimens, BR.....	....	3.50	32.00	283.00
9 to 12 inches, twice transplanted specimens, BR.....	....	4.50	41.00	344.00
If you desire the above two grades B&B, add 15c per plant.				
12 to 15 inches, twice transplanted, B&B.....	.75	6.80	61.00	....

#### 4. GAULTHERIA PROCUMBENS (Wintergreen).

This is the little plant which produces the true wintergreen flavor and from which wintergreen oil is extracted. There is nothing with which it can be compared for the reason that it is in a class by itself. It is a sturdy, hardy little subject flourishing northward into Canada and well to the southward, particularly in elevated regions. The tiny leaves are nicely rounded, deep green and glossy and take on rich shadings of deep red in the autumn. Grows to a height of only 4 to 6 inches, but produces a matted ground covering. Bears bright red berries in great abundance. These berries, which are edible, remain on the plants until the following summer. Children often take delight in gathering them, as well as the tender young leaves, for their sweet wintergreen flavor. When food is scarce in the winter season they form a part of the food of game birds. Its fine foliage, its small, delicate, pink, bell-shaped flowers, its brilliant red berries and its hardiness combine to make it a plant without peer in its class. To know this delightful little plant is to admire and love it, and it should occupy a place in every garden where it will grow. Along with its other merits it is easy to handle.

	Each	10	100	1000
2-year, once transplanted.....	....	....	10.00	80.00

#### 5. KALMIA LATIFOLIA (Mountain Laurel).

Native of the Appalachian mountains. Grows into a compact, symmetrical shrub, densely covered with foliage. Leaves medium size, glossy and unchanging throughout the year. When in bloom the plants are literally bouquets of lovely, cup-shaped flowers, ranging from almost white to deep pink in color on individual specimens. Effective singly or in mass plantings. Height 3 feet or more. Very hardy and very desirable.

	Each	10	100	1000
3 to 6 inches, once transplanted.....	....	....	12.00	96.00
6 to 9 inches, once transplanted.....	....	....	18.00	144.00
9 to 12 inches, once transplanted.....	....	....	24.00	192.00
12 to 15 inches, once transplanted.....	....	....	30.00	240.00
15 to 18 inches, once transplanted.....	....	....	35.00	280.00
12 to 15 inches, twice transplanted, B&B.....	1.00	9.00	81.00	....
15 to 18 inches, twice transplanted, B&B.....	1.35	12.20	109.00	....

#### 6. MAHONIA AQUIFOLIUM (Oregon Grape).

An ornate little evergreen shrub, native of Oregon, where it is much loved and enjoyed. Leaves are hollylike and bright green. Some leaves take on autumn tints of crimson, deep red, bronze and gold. Has long clusters of bright, golden-yellow flowers in the spring, followed by bunches of bright blue, grapelike berries, which are sometimes used for making jelly. Attractive in foliage, flower and fruit. Also fine for interior decorating purposes. The shrub is at its best in group plantings. One of the hardiest of the broad-leaved evergreens.

	Each	10	100	1000
3 to 6 inches, once transplanted.....	....	....	9.00	72.00

vey only two types rated higher. It is rounded in outline and flat-topped, with drooping branchlets. Its dark green foliage is excellent. This variety is medium in growth rate and fills up well. It does well in heavy shade. In our region I would classify it as the best of the dwarf yews. Fully exposed in our plantation, it has shown little burn. In more severe climates I would suggest its use in partially shaded and protected situations.

Two types are included in the dwarf, compact, rounded or globose classification. Neither one is being grown in large quantities at the present time, but both warrant consideration. *Taxus cuspidata densa*, the cushion Japanese yew, is a type only slightly broader than high, possesses dark green foliage and is a slow grower. Perhaps the major criticism of this plant is that its slow growth

may make it unprofitable to grow. *Taxus media wardi*, the Ward Anglo-jap yew, is perhaps slightly large to be included in this size classification, but it can be easily restrained. It is a semi-rounded form, somewhat broader than high, with dark green foliage. It has a good winter color and is superior to *Taxus cuspidata nana* in this respect. It also makes up faster, being of medium to rapid growth rate. Some nurserymen report that its loose habit is objectionable. Some pruning is necessary to keep it dwarf and compact. It is reported as being somewhat tender in Illinois.

*Taxus cuspidata nana*, the dwarf Japanese yew, is classified as a dwarf, compact and flat-top form. Perhaps it is erroneous to classify this type as a dwarf plant, since it will become four to five feet in height and have a spread of twelve to fifteen feet. However, it is considered a dwarf type

because of its slow growth rate. It received more favorable votes than any other variety or clone listed on the commercial survey sheet. Criticisms of the dwarf Japanese yew include the tendency for the foliage to burn in full sun in the summer, injury to foliage from late spring frosts, the fact that it makes up slowly and that the foliage is apt to be yellowish-green. It requires excellent soil drainage. In spite of these criticisms, it is one of the best of the dwarf yews for landscape planting, especially if it can be used in light-filtered shade.

#### Small Types, 4 to 6 Feet.

The yews in this size group are classified into three categories (1) slow-growing, bushy, upright-spreading types; (2) more rapid-growing, broad bushy, upright-spreading types, and (3) narrow, upright types.



**7. MAHONIA NERVOSA (Longleaf Hollygrape).**

Plants grow 12 to 18 inches tall. The leaves, which are 12 to 15 inches long, are beautifully fernlike in form. The foliage is dark green turning to most beautiful shades of brilliant red and bronze in the fall. Flowers are bright golden-yellow, followed by bunches of bright blue, grape-like fruit. Does well in sun or shade. Thrives under conifers. Very hardy. One of the very best of Oregon's native shrubs.

3 to 6 inches, once transplanted.....	Each	10	100	1000
	...	...	\$ 9.00	\$ 72.00

**8. NANDINA DOMESTICA (Nandina).**

A native of the Orient. Characterized by delicate foliage, the long slender leaves being frondlike. Some of the leaves turn in autumn to attractive shades of red, bronze and scarlet, and some remain green. It bears large clusters of bright red berries which at times almost cover the tops of the plant. Height 4 to 5 feet. Good for specimen or mass plantings. One of the finest hardy evergreens grown.

3 to 6 inches, once transplanted.....	...	8.00	44.00
6 to 9 inches, once transplanted.....	...	12.00	96.00
9 to 12 inches, once transplanted.....	...	15.00	120.00

**9. PICEA PUNGENS GLAUCA (Colorado Spruce).**

Native from Wyoming to Colorado and Utah. The color effect ranges from green to silvery-blue. A very handsome and a very hardy tree of symmetrical habit of growth. One of the most desirable of the spruces. Flourishes under adverse conditions.

3 to 6 inches, once transplanted.....	...	10.00	80.00
6 to 9 inches, once transplanted.....	...	14.00	112.00
9 to 12 inches, once transplanted.....	...	18.00	144.00
12 to 15 inches, once transplanted.....	...	22.00	176.00

**10. PINUS TABULAEFORMIS (Chinese Pine).**

A medium-size conifer, native of western China. Dense foliage, which clothes even the stem and branches. Needles 2 to 4 inches long, charmingly brilliant green, soft to the touch and of soft, silky luster. The foliage is a distinctive and decidedly pleasing shade of green and in this respect is unquestionably the finest of any conifer that we are growing. This tree's general effect is just right. It could hardly be surpassed for large banks and hillside plantings. Hardy into New England in sheltered locations. Rare. Splendid hedge subject.

18 to 24 inches, three times transplanted, B&B.....	\$1.00	\$ 9.00	81.00	....
24 to 30 inches, three times transplanted, B&B.....	1.50	13.50	122.00	....
30 to 36 inches, three times transplanted, B&B.....	1.90	17.10	154.00	....
3 to 4 feet, three times transplanted, B&B.....	2.30	20.70	186.00	....

**11. TAXUS CUSPIDATA (Japanese Yew)**

This beautiful yew is a native of the Orient and is hardy, strong and dwarf. It is a spreading tree and in older specimens may reach a spread of 20 feet and height of 8 feet. Cuspidata is fine for hedges and can be held to 12 to 15 inches tall, as it can stand any amount of pruning. It is equally good for medium-size hedges and is perfectly adapted to small homes. Has deep green foliage. Its long and continued use speaks much for the quality and desirability of the Japanese Yew. One of the most satisfactory of all dwarf evergreens for specimen and foundation use.

3 to 6 inches, once transplanted.....	...	12.00	96.00
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**12. TSUGA CANADENSIS (Canada Hemlock).**

Native from New Brunswick to Wisconsin and south to Alabama. A well known conifer of graceful, pleasing habit of growth, and regarded by some landscape architects as one of the best of conifers. Perfectly hardy, withstanding low temperature without injury to tree or foliage. Foliage is heavy and attractive; needles are short. Is naturally broadly pyramidal in form, but can be grown to a rounded head, and lends itself well to pruning into hedges.

6 to 12 inches, twice transplanted, field-grown.....	...	...	18.00	144.00
12 to 18 inches, twice transplanted, field-grown.....	...	...	24.00	192.00
18 to 24 inches, twice transplanted, field-grown.....	...	...	32.00	256.00
15 to 18 inches, twice transplanted, B&B.....	.90	8.10	73.00	....
18 to 24 inches, twice transplanted, B&B.....	1.10	9.90	89.00	....

Prices quoted are net cash prices and include expert packing and delivery on lining-out stock to all points in the United States, Canada and Alaska. No packing charge on BR and B&B stock. Prices quoted on BR and B&B stock are F.O.B. Portland, Ore.

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In the first category five types are included. This perhaps is more than necessary, but their characteristics are quite different. *Taxus cuspidata aurea*, the Goldtip Japanese yew, is included because of its off-colored foliage. While I do not care much for the yellow-foliaged evergreens, they can be used sparingly and effectively as accent points in the landscape planting. In our plantation, the Goldtip Japanese yew has been slightly better than the other yellow-foliaged forms to date. It is slow to medium in growth rate, making a plant somewhat broader than high. *Taxus baccata aurea* may be as good where it does not winter burn.

*Taxus cuspidata intermedia*, the intermediate Japanese yew, is upright and spreading in its habit of growth and is intermediate in size between *Taxus cuspidata nana* and *Taxus cuspidata expansa*. The main

criticism of this type is that it is so variable as grown in the trade that one never knows what he will get when it is ordered. Good types of this form are excellent, possessing dark green foliage, having a medium to rapid growth rate and filling up well.

*Taxus media browni*, the Brown Anglojap yew, is an excellent compact, broad columnar form with short dark green leaves, slightly higher than broad and showing a medium to slow growth rate. It is fine for pruning and developing into globe or semiglobe forms. It is excellent for dwarf and intermediate-size hedges. It can be easily restrained to form a hedge eight to twelve inches high and wide. In my opinion it is much better as a dwarf hedge than *Taxus canadensis stricta*, which has been quite highly recommended. *Taxus media cliftoni*, the Clifton

Anglojap yew, is new, and observations on its growth habit and satisfaction have been limited. Nevertheless, it appears to be good enough to put on the selected list. Its spreading growth habit indicates that it will be broader than high with age. The foliage is dark green, short and closely arranged at the base of the current season's growth, becoming longer near the close of the growth period. The foliage is quite whorled on the stem. The growth rate of this attractive type is medium.

*Taxus media kelseyi*, the Kelsey Anglojap yew, is a compact, broad and bushy type with very dark green foliage. It appears to be of medium to slow growth rate, somewhat higher than broad, but does not fill out too well at the base. While advocated as a heavy fruiter, it does not appear to be outstanding in this re-

[Continued on page 63.]

# Plant Notes Here and There

By C. W. Wood

Speaking from the garden standpoint, where I am best acquainted with the regal lily, *Lilium regale*, this is one of our most important lilies. No lily introduction since the turn of the century, with the possible exception of *L. longiflorum* insulare, or *L. formosum* to most of us, has made more rapid strides toward almost universal acceptance than has the regal one. To do that, any plant, especially lilies, most of which are temperamental, must possess unusual merits, either of beauty or ease of culture or both. In fact, the lily has received acclaim from every quarter, which indicates that profuse praise is not always the kiss of death. That it deserves the majority of the praise given to it is known to most who have grown it over a long period. Yet, one is going too far, I think, to ascribe to it the perfection indicated by some writers.

One does not need a long acquaintance with the plant to find that its impatience to begin growing in the spring often makes the lily the victim of late frosts. And I suspect that the trait has had something to do with the waning enthusiasm for the plant which is noted in some quarters. Many are the solutions which have been advanced for the problem, the most generally accepted one being the use of a heavy mulch after the ground freezes in autumn or in early winter. This is not always the perfect solution, however, for there comes the time when the returning sun's message reaches the waiting bulbs, and they feel the urge to come forth to embrace its life-giving rays. Then the mulch, or a large part of it, must be removed, and the demon frost which often comes in late May and June in latitude 45 degrees north, finds some succulent growths upon which to work havoc.

A better solution from my experience and no doubt from others', too, because the idea is not original with me, is to plant regal lilies among low-growing shrubs. The choice of companions is not wide in this climate of northern Michigan, to be sure, for the lily is a lover of sunshine and will not tolerate gracefully the shade of ordinary shrubs. In trials here dwarf lavender was used with almost perfect satisfaction, and it supplied the needed protection from wind in the lilies' early stages of growth and shielded them from most of the

early spring frosts. The shrub also provided a fine background for the lily blooms later in the season. I have read somewhere that the heaths are especially good in this role, which, no doubt, they would prove to be in sections where they can be grown without too much bother. And probably other dwarf shrubs could be found for the role if one looked far enough. Certainly it would be worth the effort if one grows or sells many regal lilies.

I have a notion, too, that most of us deal too kindly with our regal lilies in the matter of diet. Dr. Wilson, the discoverer of the plant, recorded the fact that the plant grows naturally in a meager soil. The thin layer of topsoil, as I understand Wilson's notes, contains nothing like the quantity of plant food, especially nitrogen, with which we stuff our garden soils. That may be why our garden-type regal lilies are so impatient to start growing in the spring and to keep on growing as late in autumn as they possibly can, because it is a well known fact that an abundance of nitrogen in their

diet incites many plants to continue to grow beyond their natural growing season. In any of his notes that I have read, Dr. Wilson gave no hint of injury to the plant from spring frosts in its Chinese home, but he did mention that the lily has a short season of growth, which indicates to me that our cultural practices are wrong. It is asking too much to expect that all of a plant's characteristics, including its eccentricities, can be learned in the few decades that regal lilies have been in gardens; so we may look forward to other developments in the care of the plant in years to come.

## Docks.

Being mostly weeds or economic plants, the docks are not often thought of in a decorative sense. That does not mean, however, that no ornamental material is to be found among them. On the other hand, several docks of more than ordinary merit have been in this garden, two or three of which will receive brief attention at this time.

*Rumex occidentalis*, from our

## Get to Know Leghorn's For Your Quality Evergreens

Growing a fine line of liners and specimen Evergreens in choice varieties, specializing in Yews.

Write for prices.

**LEGHORN'S EVERGREEN NURSERIES**

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## TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

**VERKADE'S NURSERIES**

NEW LONDON, CONN.

western states, is the only native species that I recall at the moment which has much to offer the garden-er. Docklike in appearance, it is attractive during its fruiting season when it displays its showy calices on 3-foot stems. Of value for the same reason is another species, *R. roseus*, that grows naturally from Egypt to Persia and, therefore, is suited only to warmer parts of the country.

One of the most ornamental docks that I have grown is *R. hydrolapathum*, from Europe, which produces a bold, tropical effect when planted in moist places, as along stream banks where it can put its roots into water and send up its lofty stems to a height of five or six feet. Its great stature and luxuriant leaves that grow as much as two feet long and are broadly oblong-lanceolate are its principal attractions.

#### *Dianthus Fruticosus*.

In asking for a note on *Dianthus fruticosus*, an Indiana reader says that the plant has long eluded him and now, after his finding seeds under its label, the plants have turned out to be something else.

I am sorry to say that a similar experience is likely to befall others who buy the plant in seeds, because the true type seems to be rare in gardens and nurseries. Usually the resulting plants are some form of the ubiquitous Deptford pink, *D. armeria*, but continued search will probably reveal one of the most interesting and one of the most useful of the clusterheads, *D. fruticosus*. Its home in the hot, rock faces of Greece no doubt accounts for its inability to stand some of our northern Michigan winters and tells gardeners in northern sections to watch its protection in cold weather. Its habit of growing on rocky ledges and cliffsides also tells us to give it similar sites in our gardens. And after one has followed that clue and watched the development of the plant, he will probably admit that the long, floppy flower stems that grow from a low, round, glaucous bush, which, in turn, proceeds from a woody stem, and that produce dense clusters of purplish flowers long after other pinks have put aside their labors were worth the search. All that I have grown, and that is not too many, have had dark red flowers with so much blue in their make-up that they were a dull purple, the worst drawback in an otherwise desirable plant, though its lack of fragrance might also be counted against it by some. I have read that

[Continued on page 60.]

# PEONIES

Standard 3 to 5-eye divisions from young plants not over 3 years old. We do not cut any flowers from our fields; so you can depend upon good strong, healthy plants.

Available soon after September 1.

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Duchesse de Nemours (8.1). Early; pure white.....	\$4.00	\$35.00
Edulis Superba (7.6). Early; old rose pink.....	3.20	28.00
Felix Crousse (8.4). Midseason; bright red.....	4.50	40.00
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Fontenelle. Midseason; large; deep red.....	4.50	40.00
Francois Ortegat (6.7). Midseason; purplish-crimson.....	3.20	28.00
Karl Rosenfield (8.8). Midseason; bright crimson.....	4.00	35.00
Lady Alexandra Duff (9.1). Midseason; blush-pink.....	5.00	45.00
La Perle (8.5). Midseason, old-rose, flecked red.....	4.00	35.00
Mary Brand (8.7). Midseason; deep, bright red.....	4.50	40.00
Mme. de Verneville (7.9). Early; white, crimson flecks.....	4.00	35.00
Mons. Jules Elie (9.2). Midseason; light rose-pink.....	4.50	40.00
Myrtil Gentry (9.1). Late midseason; pink.....	6.50	60.00
Reine Hortense (8.7). Midseason; rose-pink.....	3.50	30.00
Sarah Bernhardt (9.0). Late; large apple blossom pink.....	4.50	40.00
Unnamed, pink.....	3.00	25.00
Unnamed, red.....	3.00	25.00



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One of the outstanding, ever-favorite items of our packaged nursery stock line is this large packaged Peony.

Large, strong roots wrapped individually in attractive packages of snow-white paper lined with waterproof, coated paper, and labeled with large pictures printed in four natural colors.

The top of the package is strong, clear Kodapak cellophane which allows the customer to observe the packing material and top eye of the root.

Complete planting instructions are printed prominently on each package label.

These popular, double-flowering varieties are furnished in 2 to 4-eye root divisions:

**FELIX CROUSSE.** Brilliant crimson, prolific bloomer, midseason.

**EDULIS SUPERBA.** Deep pink, early, fine for cutting.

**FESTIVA MAXIMA.** Large snowy-white, flecked crimson, early.

Approximate shipping weight—1 pound per package.

**\$35.00 per 100**

Please order in multiples of 10 of a variety.

Minimum shipment, 50 packages.

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"Your Wholesale Nurserymen"

Ottawa, Kansas



# Lovett Host to New Jersey

By R. P. Korbobo, Secretary

New Jersey farmers and homeowners can thank the New Jersey Association of Nurserymen for bringing them a much-needed rain. For three consecutive years rain has fallen during the association's annual outing; so the nurserymen who met August 3 at Lovett's Nursery, Little Silver, were not surprised when it started to rain.

Rain or no rain, the outing was a real success, because of the hospitality of the host, Lester C. Lovett, who offered the program committee the entire use of his buildings and grounds. A large storage building with a sand-covered ground floor was used, and it enabled the more energetic members to play horse-shoes and volley ball in spite of the weather. Others were occupied with eating clams on the half shell.

The program committee, headed by Gerard Grootendorst, Oakland, decided that, since the association had taken on so many new members during the past two years, this summer's outing should be devoted entirely to the members' becoming better acquainted with one another.

President Fred Noble, and vice-president of Lovett's Nursery, introduced the honored guests, who included two past presidents of the American Association of Nurserymen, Frank LaBar and Lester C. Lovett; past presidents of the state association; staff and faculty members of Rutgers University and of the State University of New Jersey, and members of the New Jersey department of agriculture. President Noble read a telegram from Ramsford J. Abbott, new state highway commissioner, who sent his regrets for having to change his plans at the last minute. He had planned to speak at the outing.

The main feature of the day was undoubtedly the clambake. Approximately 100 members and guests sat for nearly two hours and enjoyed a 6-course meal.

After the clambake an auto caravan carried a number of nurserymen through Lovett's Nursery, which is one of the oldest nurseries in the state. John T. Lovett founded the business in 1878 under the name of the Monmouth Nursery. For many years the majority of the business was the sales of berry plants and small fruits, which were sold primarily to the retail trade. After a few years the business was moved to its

present location at Little Silver, and general nursery stock was added. Acreage was increased until it reached the present total of 650 acres that are used to grow a general line of nursery stock. Shortage of labor during World War II affected the nursery work to such an extent that the officers found it advisable to discontinue all of the retail catalog and cash-and-carry business.

Lovett's Nursery was incorporated November 3, 1932. Officers of the corporation are Lester C. Lovett, president; Fred J. Noble, vice-president; Marguerite C. Ward, treasurer, and C. Vandever Lovett, secretary.

Earlier in the day some of the members stopped at Turner Bros. Nursery, at West Long Branch, and inspected the acreage. Retail landscape plantings are the main business. When the nursery was started more than twenty-five years ago, perennials and cut flowers were grown for the first five years to provide sources of income to help meet

the annual overhead of growing landscape-size stock to salable size.

The landscape department was devoted mainly to garden problems and then branched out to include all types of work, though the owners, Ernest A. and Arthur R. Turner, have tried to avoid doing grading work or lawn plantings. For the past twelve years a landscape architect has been employed, and Stanley MacIntosh has been engaged in this work three years.

For the past eighteen years garden exhibits have been displayed at the annual International flower shows held at New York, as the owners believe these exhibits are especially good advertising for their type of nursery.

Business has increased annually since the firm was started, and many of the employees have been with the company for over twenty years. During the spring and fall seasons, twenty-five to thirty-five men are employed, and twelve of the employees work the year around. Only modern machinery is used to operate the nursery, and it includes five trucks.

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Large plants, 5 ft. and up.  
Charles X, William Robinson,  
Pres. Grevy, Leon Gambetta, etc.

To plant now  
AMERICAN ARBORVITAE, 10 ft.  
An assortment of heavy stock  
for landscaping.

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Delivery October 1 for immediate potting. B Certificate.

Selected pencil-thickness.

\$25.00 per 100; \$200.00 per 1000.

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## JAPANESE YEW

Upright-growing (capitata).  
Perfect, compact specimens.  
3 to 3 1/2 ft. high, \$8.50 ea.  
3 1/2 to 4 ft. high, \$7.50 ea.  
Also some nice specimen Hybrid Lilacs,  
Oxydendrum and American Holly.  
Beetle Zone only.  
**PEERSKILL NURSERY**  
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## LINING-OUT STOCK

Our new Fall, 1950, price list will be ready for distribution October 15. If you are interested in any special items, send us your list NOW.

**THOMAS B. MEEHAN CO., Inc.**  
DRESHER, PA.



At the present time eighty acres are under cultivation. Evergreens, shrubs, shade trees, flowering trees, roses and perennials are the primary stock. More than 8,000 square feet of greenhouses are used to grow annuals for spring sales and for propagating evergreens, azaleas and perennials. While the nursery does supply the majority of the landscape materials that it sells, stock is occasionally bought from other growers. Surplus stock is sold at wholesale, but cash-and-carry business provides a consistent means of maintaining a low inventory.

### HILLSIDE HOLLY ORCHARDS FOR SOIL CONSERVATION.

A holly orchard may fit the need on many farms for a crop to retire eroding land from cultivation and at the same time bring an income as good as or better than conventional crops, for holly may be marketed at Christmas time. And a further advantage, the harvesting comes after the harvest time for most crops.

Wilmer W. Steiner, manager of the Soil Conservation Service nursery at Beltsville, Md., suggests that holly may be planted on contour rows, twenty to twenty-five feet apart each way. For the first few years the trees should be mulched to conserve moisture and prevent weeds. A grass-legume mixture may be seeded between the rows and mowed for hay. Within a few years the holly may be clipped conservatively for the Christmas market.

The Soil Conservation Service has tested several varieties of American holly for this purpose and has found two, *Helvetia*, originally collected in West Virginia, and *Richards*, collected in southern Maryland, with excellent foliage and good growth habits. Planting stock has been given to the United States Department of Agriculture, bureau of plant industry, soils and agricultural engineering, to multiply the supply and release it to nurserymen.

THE half-acre tract at Seventy-ninth street and Wornall road, Kansas City, Mo., owned by the Chandler Landscape & Floral Co., is being leased by F. A. Morrison for a retail nursery.

DOCTORS estimate that it will be three or four months before August Bosenberg, of Somerset Rose Nursery, Inc., New Brunswick, N. J., will be able to resume normal activities since he suffered a heart attack July 16.

## LINING-OUT STOCK

Fall, 1950

Write for Illustrated List

	Per 100	Per 1000
European Mountain Ash, X, 5 to 6 ft., lots of 10.....	\$100.00	.....
European Mountain Ash, X, 4 to 5 ft., lots of 10.....	65.00	.....
European Mountain Ash, X, 3 to 4 ft.....	45.00	.....
European Mountain Ash, X, 2 to 3 ft.....	25.00	.....
European Mountain Ash, 2-0, 24 to 36 ins.....	15.00	.....
European Mountain Ash, 2-0, 12 to 24 ins.....	10.00	.....
European Mountain Ash, 2-0, 6 to 12 ins.....	6.00	\$ 50.00
(Grown from seeds from red-berried trees.)		
White Birch, 2-0, 10 to 18 ins.....	7.50	60.00
Red Barberry, X, 12 to 18 ins.....	15.00	125.00
Red Barberry, X, 6 to 12 ins.....	8.00	70.00
Green Barberry, X, 12 to 18 ins.....	10.00	.....
Green Barberry, X, 6 to 12 ins.....	7.00	.....
Colorado Blue Spruce, 3-2, 6 to 9 ins.....	15.00	.....
Colorado Blue Spruce, 3-0, 8 to 10 ins.....	9.50	65.00
Colorado Blue Spruce, 3-0, 4 to 8 ins.....	7.00	50.00
Colorado Blue Spruce, 3-0, 2 to 4 ins.....	4.00	25.00
American Arborvitae, 2-2, 6 to 9 ins.....	9.00	75.00
American Arborvitae, 2-2, 4 to 6 ins.....	7.50	60.00
Colorado Green Spruce, XXX, 10 to 16 ins.....	25.00	.....
Colorado Green Spruce, XXX, 6 to 10 ins.....	18.00	.....
Ponderosa Pine, 2-2, 8 to 12 ins.....	12.50	.....
Ponderosa Pine, 2-2, 4 to 8 ins.....	8.00	.....
Ponderosa Pine, 2-0, 2 to 5 ins.....	5.00	35.00
Balsam Fir, XX, 8 to 12 ins.....	10.00	90.00
Black Hills Spruce, XX, 12 to 15 ins.....	35.00	.....
Black Hills Spruce, XX, 9 to 12 ins.....	27.50	.....
Black Hills Spruce, XX, 6 to 9 ins.....	20.00	.....
Dwarf Montana Mugho Pine, 2-2, 4 to 6 ins., sheared.....	15.00	.....
Dwarf Montana Mugho Pine, 3-0, 2 to 4 ins., top-sheared.....	5.00	.....
Austrian Pine, 2-0, 1 to 4 ins.....	4.50	30.00

### Scotch Pine

Stock from Danish Seeds

	Per 100	Per 1000	Per 5000	Per 10,000
2-0, 2 to 3 ins.....	\$ 3.00	\$20.00	\$ 90.00	\$170.00
2-0, 3 to 8 ins.....	4.50	25.00	120.00	220.00
2-2, 6 to 12 ins.....	10.00	.....	.....	.....
2-2, 12 to 18 ins.....	20.00	.....	.....	.....

Terms: Cash with order, please; or 25 per cent with order and balance before shipment. Packing free; shipment by parcel post or express, collect. Quantity prices on single items only, not collective totals.

25 at 100 rate; 250 at 1000 rate.

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Rhododendron — Kalmia

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Choice Varieties of Lining-out Stock.

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R.F.D. 1

HARMONY, PA.

# Cedar Rapids Fetes Iowa

By C. H. Heard, Vice-president

The Iowa Nurserymen's Association held its summer meeting at Cedar Rapids, August 3 and 4. The host was the Cedar Rapids Nursery Co., in cooperation with other local nurseries, including Baumhoeffner Nursery, Green Tree Nursery, Nep-rash Nursery, Linn County Nurseries, Garden Craft Nurseries and Wayside Gardens. Meeting headquarters were the storage house of the Cedar Rapids Nursery Co., which had been amply serviced for the occasion with a thorough sweeping, a new coat of whitewash and due attention to other accessories to make the nurserymen's visit comfortable.

A good representation of nurserymen was on hand by noon Thursday, and the afternoon was spent in visiting the local nurseries or chatting in the cool of the storage house. W. J. Hughes, owner, showed his famous hydrangeas, and they looked fine. He also showed the methods of propagation he uses.

Thursday evening the nurserymen and their families gathered at the Roosevelt hotel for dinner, and seventy-five were present. Dwight Hughes proved to be a gracious host and presided at a short program. He introduced Robert Caldwell, executive vice-president of the Cedar Rapids chamber of commerce, who complimented the Cedar Rapids nurserymen on their fine civic attitude. He warned that businessmen must be prepared for the problems confronting them. He believed that with good personnel and good organization they can be met. He emphasized the human element as of vital importance.

He quoted a recent survey of the causes for discharging men and said the following reasons occurred repeatedly: Laziness, poor health, dishonesty, immorality, intemperance, disloyalty, poor personality, talking too much and employers' not knowing their employees.

Loyalty, he stated, seems to be a quality of greatest demand but in shortest supply. An ounce of loyalty is sometimes worth a pound of ability, he said. In a highly competitive world, employers must both have and secure personnel with good personalities. They must be gracious and not be defeated by the talk of "small" people.

Wayne Ferris, Earl Ferris Nursery,

Hampton, newly elected president of the American Association of Nurserymen, gave an excellent talk on the work of the national association and asked support in helping put across its program. The "Plant America" program is going over in a big way. Vernon Marshall, Marshall Nurseries, Arlington, Neb., newly elected member of the A. A. N. board of directors for region 4, was introduced.

Friday morning's activities consisted of a tour, first through the factory of the Quaker Oats Co., which was a revelation to all. The group saw whole railroad cars of grain unloaded in five minutes and machinery which dispensed with countless man-hours of labor. The various operations from the making, labeling, filling and sealing of containers to the final packaging amazed everyone. To avoid monotony on the job, workers change tasks frequently. Several nurserymen commented on the noise of some operations and appreciated the peace and quiet of nursery work all the more.

One lesson learned from this tour

was that the nursery industry is far behind the procession in the use of mechanical equipment. However, improvements are being made, especially in mechanical planters. Carl Baumhoeffner showed a new one and demonstrated its use; it appeared to be doing an excellent job.

A tour of the city of Cedar Rapids, followed, with a local nurseryman on each bus to act as guide. The group saw many fine homes, schools and new housing developments and visited a large estate, which was beautifully planted and maintained.

An excellent picnic dinner was served by caterers at noon and enjoyed by ninety-two nurserymen and members of their families. George Rose, Henry Field Seed & Nursery Co., Shenandoah, presided over an informal business meeting. Brief reports from a few committees were heard. Appreciation was expressed to the Cedar Rapids hosts for a splendid meeting. C. C. Smith going so far as to move that the association go on record as favoring Cedar Rapids as a permanent locale for summer meetings.

CHANGE of address has been announced by Neal Rohlf, landscape contractor, whose business is now located at 3020 Brady street, Davenport, Ia.

## Imported HOLLAND BULBS

98c per doz.  
imported  
Holland  
Daffodils  
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49c per doz.  
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Free Counter Display and  
25 Planting Guide Book-  
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HOLLAND TULIPS

Fast  
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**40%**  
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300 Tulips . . . . .	\$24.50
300 Crocus . . . . .	10.00
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<b>Total:</b>	<b>\$38.50</b>
<b>40% DISCOUNT . . . . .</b>	<b>15.40</b>
Your cost for 650 Bulbs . . . . .	<b>\$23.10</b>
<b>GOOD PROFIT — COMPETITIVE PRICES</b>	

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Growers of Quality Evergreen Seedlings and Transplants  
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They are made by expert labor only.

Made on strong thrifty understock with proper root growth established in 2 1/2-inch pots.

Made with long young scions.

Proper heat and ventilation to insure proper callusing.

These are only a few of the reasons why Chandler's Grafts make such rapid growth when lined out in the field.

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**JUNIPERUS VIRGINIANA**—Blue, Burki, Canaerti, De Forest Green, Glauca, Globosa, Keteleeri, Manhattan Blue, Pyramidalis, Hill's Dundee and other varieties.

53c each in quantities over 300; under 300, 55c each.

These prices include scion wood furnished by us.

Any scion wood that we have to purchase will be charged at cost.

## CHANDLER LANDSCAPE & FLORAL CO.

101 WEST 47TH ST.

KANSAS CITY 2, MO.

### ROCKNOLL BANKRUPT.

A bankruptcy petition was filed July 27 in District court by Belden C. Saur, operator of the Rocknoll Nurseries, Morrow, O. It listed \$72,208 in liabilities, of which \$70,108 were unsecured, and \$10,094 in assets.

He proposed to the court a plan to pay the unsecured creditors 20 cents on the dollar. If the settlement is approved, he will fill 661 small orders on which he has received \$2,104 in advance payments, the Cincinnati Enquirer reported.

PLANS are being made by Peter Gherardi, 126 Washington street, Mount Vernon, N. Y., to stock a 4-acre nursery.

STARTED last fall, the White Flower Farm, a retail nursery growing mostly perennials, at Litchfield, Conn., is owned by W. B. Harris and managed by J. C. Snavely.

LOCATED on state route 8 at the edge of Barnesville, O., Burkhart Nurseries are building a garden center. The new addition consists of a modern shop, 20x32 feet; two greenhouses, 32x104 feet; a lath house; coldframes, and one acre of display grounds.

## TAXUS

Quality stock with J. B. certificate; in carload or truck-load lots.

**TAXUS capitata**, 2 1/2 to 8 ft.

**TAXUS cuspidata**,  
1 1/2 to 4 ft.

**TAXUS nana** and  
**intermedia**, 1 to 3 ft.

**TAXUS hicksii** and **hatfieldii**,  
2 to 4 ft.

Also

**TAXUS Capitata liners**,  
3 to 4 yrs., 1 to 2 ft.

### BULK'S NURSERIES

Babylon, L. I., N. Y.

### NORTHERN COLLECTED EVERGREENS

FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD

Charlotte, Vermont

### ILEX BULLATA

A very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

Each

4 to 6 ins., 2-yr., T.....15c

6 to 8 ins., 2-yr., T.....20c

Can be transplanted now.

### Azalea Hinodegiri

2-year transplants, 3 to 6 ins., branched. Brilliant red. Each plant carries a nice ball of soil. Can be transplanted now. \$15.00 per 100.

### English Boxwood

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 6 x 8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now. 2 to 3-in. T. \$7.50 per 100; 3 to 4-in. T. \$10.00 per 100.

American Boxwood, 3 to 4-in. T. 7 1/2c each; 4 to 6-in. T. 10c each; 6 to 8-in., 15c each.

Send for list of other choice plants.

### ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

### SHEPARD NURSERIES

Growers and Distributors of  
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.  
60 acres growing. Skaneateles, N. Y.



# Two-day Indiana Outing

By Harold Clegg, Secretary

One hundred and sixty-three persons enjoyed the hospitality of Jackson & Perkins of Indiana, Inc., and of the Joseph H. Hill Co., both at Richmond, when the Indiana Association of Nurserymen held its summer meeting August 2 and 3. Pleasant weather contributed much to the outings.

A motorcade assembled at the Jackson & Perkins nursery at 4 p. m. August 2 and proceeded to the Joseph Hill greenhouses for a tour of some of the extensive greenhouses of camellias, gardenias and roses. There, many nurserymen saw for the first time the new rose, Happiness. Methods of grading and packing roses were also particularly impressive, along with explanations that John Lemon gave throughout the tour as he described procedures followed in the growing of each variety.

More than 160 persons are employed by the Joseph H. Hill Co. The firm's fifty-two greenhouses contain more than 1,000,000 feet of glass. Started in 1916 by Joseph Herbert Hill, the firm has won repeated recognition for its development of new greenhouse roses, and it has also done extensive work with carnations, camellias and gardenias. In 1939 the firm purchased the greenhouses of Fred H. Lemon & Co., at Richmond, and John Lemon remained in charge of the range on Indiana avenue when it was taken over by Hill's.

At 6:30 p. m. the dining room of the Hotel Leland, Richmond, was filled with nurserymen from many states, who enjoyed one another's fellowship at a chicken dinner and heard Robert Simpson, Simpson Orchard Co., Vincennes, report on the recent convention of the American Association of Nurserymen. He also mentioned the many interesting and worth-while experiments he had observed at the United States Department of Agriculture's research center at Beltsville, Md. Irvin J. Matthews, Matthews Nursery & Seed Co., Gary, past president of the Indiana association, had a tape recorder set up and interviewed out-of-state guests immediately after the dinner. The recording of these interviews was played for the Hoosiers the next day during luncheon.

The program for Thursday began at 10 o'clock on a bright and brisk morning when a crowded registra-

tion period was handled by Mary L. Stum, Indianapolis, financial secretary of the association. Conventioners were intrigued with the irrigation display of Terpstra Bros., Munster.

Staff members of Jackson & Perkins arranged a motor tour of the nursery to demonstrate the methods of growing large blocks of evergreens. John Hollenbach was put in charge of the 125-acre farm when it was purchased by Jackson & Perkins Co., Newark, N. Y., in 1945.

Everyone was hungry when he returned from the tour and found that the company had set up several tables holding exceptionally palatable food.

With great clarity, Arthur Slavin, United States Soil Conservation Service, Milwaukee, Wis., described the soil conservation practices followed at the Jackson & Perkins nurseries, and he capably answered questions from his interested audience.

The executive committee held a

## LINING-OUT STOCK

in wide assortment

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

## DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

## THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES  
WESTMINSTER, MD.

## WANTED

### Nursery-cut Christmas Trees

Preferably Colorado Blue or Green Spruce. Well shaped tips, symmetrical and full, from 6 to 9 ft. tall. Quote prices on carload lots and trailer truck loads.

### MANGEL FLORIST

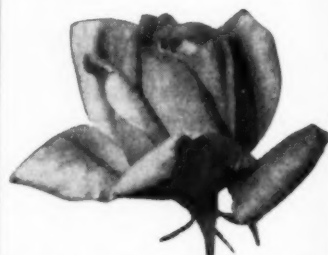
126 Skokie Highway Wilmette, Ill.

brief meeting after luncheon and voted to accept new members as follows: Active, Kern Nursery, New Castle, and Richmond Nurseries, Richmond, and associate, Terpstra Bros., Munster; Paul E. Lull, Jr., West Lafayette, and Frank H. Hart, Griffith.

## OYSTER-SHELL SCALE ON WOODY SHRUBS.

Strains of the oyster-shell scale found on woody shrubs appear to be more difficult to kill than the species which occurs on apple, according to Dr. F. L. Gambrell, entomologist at the New York agricultural experiment station, Geneva. Dinitro compounds which have shown much promise in destroying the eggs of oyster-shell scale when applied to apple trees during the winter or early spring have not proved so effective against this pest when used at similar concentrations on willow, lilac and other woody shrubs.

One dinitro compound known as



## NEW DARK VELVETY RED

No. 112

and other fragrant

## SUB-ZERO HYBRID TEAS

Large and beautiful as any.  
Easy to grow and long to live.  
Save replacement expense.  
Also Yellow and Orange Climbers.

Write for trade prices to

**BROWNELL ROSES**  
LITTLE COMPTON, R. I.

## WANTED

Acer platanoides, 2 to 5-in. cal.  
Acer rubrum, 2 to 5-in. cal.  
Gleditsia triacanthos, 2 to 5-in. cal.  
Platanus acerifolia, 2 to 5-in. cal.  
Tiia platyphyllos, 2 to 5-in. cal.

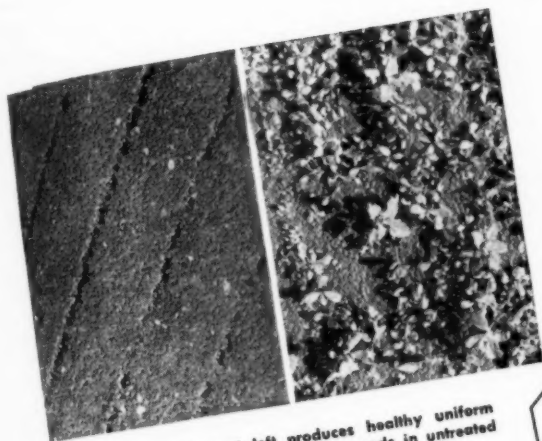
**FAULK-WHITE CO., Inc.**

ALBERTSON, L. I., N. Y.

# Kill Weed Seeds and Soil Insects . . . Use

## ► DOWFUME MC-2

For Fumigation of Seed Beds



Treated seed bed at left produces healthy uniform growth of violas. Note grass and weeds in untreated area at the right.

A simple, low-cost treatment with Dowfume MC-2 helps to insure strong, healthy seedlings in both indoor and outdoor seed beds by removing weed competition and root-attacking parasites. Dowfume MC-2 controls most weed and grass seeds, grass stolons, roots of perennial plants, nematodes and soil insect pests throughout the tilled layer of soil. Extensive tests have shown that most of the weed seeds and certain disease organisms present in the soil are controlled by proper treatment with Dowfume MC-2.

If you want a quick, effective, economical way to fumigate your plant beds before seeding, ask your Dow dealer for Dowfume MC-2.

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN



Elgetol has given encouraging results in tests on woody shrubs when diluted at the rate of one gallon to 100 gallons of water. The chemical is quite toxic to growing tissues, however, and Dr. Gambrell warns against its use except when the plants are in a strictly dormant condition. While Elgetol is a liquid or slurry type of material, most other dinitro compounds are found on the market as powders, generally containing about forty per cent of the active ingredient, and so should be used at the rate of four pounds to 100 gallons of water.

This insect overwinters in the egg stage beneath the oyster-shaped scales and hatches in the spring during late May or early June, according to Dr. Gambrell, who advises trimming out and burning as much of the heavily infested wood as possible. It is sometimes possible to remove large numbers of the scales with a stiff brush or blunt instrument. A spray of Black-Leaf 40, at the rate of one pint to 100 gallons of water with two or three pounds of soap or hydrated lime, will kill the young crawling insects as they hatch out. This spray should be repeated four to five days later, as all of the eggs do not hatch at the same time.

### HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs.	\$0.80	\$ 5.00
3 to 6 ins., sdgs.	1.50	10.00
6 to 9 ins., sdgs.	2.50	15.00
9 to 12 ins.	6.00	40.00
12 to 18 ins.	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss. Send for trade list.

Cash, please.

**R. M. COLE**

Box 37

Charlotte, Vt.

### SURPLUS, Fall Only

100 Retinospora cyano viridis,	Per 100
12 to 15-in.	\$135.00
100 Azalea Kaempferi, 12-in.	100.00
40 Azalea mollis Queen Emma,	
15 to 18-in.	225.00
75 Azalea mollis Director	
Meerlands, 15 to 18-in.	225.00
40 Azalea mollis Chevalier	
de Reuil, 18 to 24-in.	250.00
40 Azalea pontica Gloria Mundi,	
15 to 18-in.	225.00
40 Azalea pontica Daviesi,	
15 to 18-in.	225.00
40 Azalea pontica Sang de	
Gentbrugge, 15 to 18-in.	225.00
40 Azalea pontica Altaclarensis,	
18 to 24-in.	250.00
100 Mahonia bealei, 3-yr. X.	75.00
100 Franklinia alabamaha,	
10 to 14-in. X.	45.00
100 Ilex crenata convexa,	
15-in. XXX	135.00
500 Ilex crenata convexa,	
seedlings, X	15.00
100 Ilex crenata helleri, 2-yr. X.	60.00
500 Viburnum carlesii, 2-yr. S.	25.00
500 Taxus capitata, 4-yr. XX.	65.00
12 Cornus kousa, 8 to 10 ft.	\$8.00 each

Cash with order.

**BRIMFIELD GARDENS NURSERY**  
245 Brimfield Rd.  
WETHERSFIELD, CONN.

### LINERS

Ask for list.

**BROUWER'S NURSERIES**

Box 25 NEW LONDON, CONN.

### Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

**W. - T. Smith Corporation**  
Telephone 2689 GENEVA, N. Y.

### PACHYSANDRA

The ideal permanent ground cover plant for shady areas in all climates. Strong, well rooted, 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; 5000 or more at \$32.50.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

### PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

**LESTER C. LOVETT**  
MILFORD DELAWARE

## AMERICAN ASSOCIATION OF NURSEYMEN

RICHARD P. WHITE.  
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,  
WASHINGTON 5, D. C.

### CONVENTION AFTERMATH.

While the report of the A. A. N. convention at Washington, D. C., was printed in detail in the August 1 issue of the American Nurseryman, some routine matters had the attention of the board of directors—formerly executive committee—at the conclusion of the business sessions.

John Wight, Cairo, Ga., was re-appointed treasurer, and he will hold that office in addition to that of vice-president.

Rene Casadaban, Abita Springs, La., was appointed local chairman for the 1951 convention committee on arrangements. The convention will be held at New Orleans, July 16 to 19, 1951.

Thirteen membership applications were accepted, bringing the total membership above 1,300 and the net gain for the year over 100. Five applications were rejected for various causes.

Expenses of all standing committees were limited to \$50 per annum unless additional expenditures are authorized in advance by the board of governors or by the board of directors.

Check by the headquarters office boosted the official registration count at the convention to 942.

At the convention banquet guests received souvenirs in the form of Congress playing cards "Enchanting Design" with the A. A. N. seal, "1875—1950" and "Plant America" on the back in black and silver or silver and black in reverse. Additional decks were sold at \$1.50 per deck, and they are still available at the headquarters office at that price or at \$1 per deck in lots of twelve decks or more.

### FREIGHT RATE DATA.

Because transportation costs present an urgent problem at present, the transportation committee of the American Association of Nurserymen has been reorganized, and five subcommittees have been formed to deal with the separate problems during the coming year. As the chairmen of these subcommittees, President Wayne Ferris has appointed the following: Rail freight, Charles H.

Baldwin, Jackson & Perkins Co., Newark, N. Y.; motor freight, James Lauden, Consolidated Roses, Inc., Tyler, Tex.; express, Carl Lumry, Mount Arbor Nurseries, Shenandoah, Ia.; postal, George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia.; air freight and express, John Snyder, Jackson & Perkins Co., Pleasanton, Calif.

The rail freight committee has already been active in following up the work of the past year. Data on freight and truck movement are badly needed, and efforts have been made to secure them as soon as possible.

Under the authorization of the board of governors at the recent convention at Washington, an agreement has been made between the association and a firm of freight auditors for the purpose of securing information on carload, LCL and truck movements. This arrangement has been made with the firm of Bell & Ussery, Continental Building, Washington 5, D. C. All A. A. N. members will receive, if they have not already received, a letter explaining the arrangement, whereby this firm will audit their freight bills under the usual terms

### TRADE LIST WILL BE READY SEPT. 1

It will list:

Evergreen Seedlings.  
Evergreen Transplants.  
Broad-leaved Evergreens, liners and finished.  
Ornamentals, for lining out.  
Evergreen Specimens, B&B.  
Ornamental Shade Trees.  
Deciduous Shrubs.  
Hybrid Azaleas.  
Hybrid Rhododendrons.

FAIRVIEW EVERGREEN NURSERIES  
FAIRVIEW, Erie Co., PA.

Lining-out  
Stock

..  
**HESS' NURSERIES**  
MOUNTAIN VIEW, N. J.

## AMERICAN NURSERYMAN

of fifty per cent of sums recovered and will at the same time mark the bills for future compilations of data as needed.

Members are asked to mail all freight bills from July 1, 1949, to June 30, 1950, to the above firm for audit. All paid freight bills, both carload and LCL, and also motor freight bills, truckload and LTL, are wanted. Members will get the usual fifty per cent of any sums that are recovered, and the association will have available to it, in summary form, data that will be invaluable when it comes to the real contest before the I.C.C. on dockets which are already being studied.

There has also been mailed to each member a uniform record sheet for keeping a record of rail and motor freight bills starting July 1, 1950. If this record is kept up to date, at the end of the year each member will have a complete picture of his traffic by rail and motor freight which will make further questionnaires unnecessary.

### BABY RAMBLER AWARDS.

The Baby Ramblers compose an organization of sons of nurserymen belonging to the American Association of Nurserymen that, before a

### NORTHERN-GROWN LINING-OUT STOCK

Betula papyrifera	Per 100	Per 1000
1 to 2 ft.	\$ 6.00	\$50.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	25.00	
4 to 6 ft.	40.00	
Clethra alnifolia		
6 to 12 ins.	6.00	50.00
Ilex verticillata		
1 to 2 ft.	6.00	50.00
Syringa vulgaris		
1 to 2 ft.	6.00	50.00
Viburnum cassinoides		
1 to 2 ft.	6.00	50.00

### EVERGREENS

Abies balsamea	4.00	25.00
4 to 8 ins.	8.00	60.00
8 to 12 ins.		
Thuja occidentalis	4.00	25.00
6 to 8 ins.	5.00	40.00
6 to 12 ins.		
Tsuga canadensis	4.00	25.00
4 to 8 ins.	5.00	40.00
8 to 12 ins.		

### HEMLOCK TRANSPLANTS

Tsuga canadensis	12.00	100.00
4 to 8 ins., 1-yr. tr.	18.00	160.00
8 to 12 ins., 2-yr. tr.		

The above stock is first-quality collected lining-out stock, except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

P. O. Box 352  
Exeter, New Hampshire

### HYBRID RHODODENDRONS — AZALEAS OUR SPECIALTY

Price list available on request.

**HICKORY HILL NURSERY**  
Route 25 A, Fort Salonga  
NORTHPORT, L. I., N. Y.



headquarters office was established, rendered considerable service to the parent body in respect to the convention program and in other matters. During recent years the group has taken on new life, with increased membership from a younger generation.

During an earlier period the Baby Ramblers accumulated funds out of which the principal amount of \$1,000 in United States Treasury bonds was turned over to the American Association of Nurserymen in 1941 to establish the Baby Rambler award. The interest was to be used annually for an award to be made for "outstanding contributions to horticulture, to the nursery profession or to the promotion of the activities, projects or general advancement of the American Association of Nurserymen." The recipient is selected by the membership of the Baby Ramblers, and the award is made at the A. A. N. convention.

The first award was made in 1942, in the form of a wrist watch, to Richard P. White, A. A. N. executive secretary, for "outstanding service to the nursery industry of the United States through the American Association of Nurserymen," the presentation being made by Harry Malter.

The second award was made in 1944 to Paul C. Stark, for "his exceptional efforts in the promotion of victory gardening, especially in the industrial field, through the agency of the National Victory Garden Institute." Presentation of the award, a war bond, was made by Henry Homer Chase.

The third award, a wrist watch, was made in 1948 to John Awdry Armstrong, then retiring president of the A. A. N., for "the greatest contribution in horticultural research and association activity," the presentation being made by Robert Beam.

The fourth award, made in 1949, was an engraved Hamilton wrist watch, to F. R. Kilner, editor of the American Nurseryman, "in recognition of extraordinary service to the nursery industry," the presentation being made by J. B. Hill.

The fifth award made last month at Washington, D. C., was to Lee McClain, Washington Heights Nurseries, Knoxville, Tenn., in recognition of the service he rendered a decade ago in the removal of trade barriers in the form of quarantines and regulations governing the interstate shipment of plants. In Mr. McClain's absence, the announcement of the award, in the form of a traveling bag, was made by Charles B. Greening.

## Protect your TREES with CHASE Spiral Tree Wrap



Both Tree Wrap and Nursery Squares made from crinkled kraft paper, laminated with asphalt. Special Wrap comes in easy-to-handle rolls, in varying widths. Protects against sun scald, severe frost, rodents, and abrasions. Maintains moisture content of bark.

### CHASE DUPLEX NURSERY SQUARES

Have many protective uses. Come in wide variety of ready-cut sheet sizes to save you time and labor.



Mail  
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TODAY!

Chase Bag Co.  
309 W. Jackson Blvd., Chicago 6, Illinois  
Gentlemen:  
Please send me more information about  
☐ Chase Duplex Tree Wrap  
☐ Chase Nursery Squares  
☐ Please have salesman call

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## CHASE BAG CO.

General Sales Office: 309 W. Jackson Blvd., Chicago 6, Illinois  
Branches Located Coast to Coast

## LYTHRUM MORDEN'S PINK

Strong rooted cuttings.

\$8.00 per 100

\$75.00 per 1000

300 at 1000 rate.

### PLANE VIEW NURSERY

NEWPORT, R. I.

**PLANT BUYERS GUIDE - \$7.50 per copy postpaid.**

Tells where to buy over 50,000 different plants and seeds.  
AMERICAN NURSERYMAN 343 So. Dearborn St. Chicago 4, Ill.

# Coming Events

## MEETING CALENDAR.

August 17 and 18, Michigan Association of Nurserymen, Hotel Vincent, Benton Harbor.

August 21 to 23, Texas Association of Nurserymen, Rice hotel, Houston.

August 21 to 25, National Shade Tree Conference, Hotel Syracuse, Syracuse, N. Y.

August 22 to 24, Southern Nurserymen's Association, Francis Marion hotel, Charleston, S. C.

August 26, Pennsylvania Christmas Tree Growers' Association, John E. Bachert farm, New Ringgold.

August 28 to 30, Northern Nut Growers' Association, Legion hall, Pleasant Valley, N. Y.

August 29 and 30, Kansas Association of Nurserymen, Manhattan.

August 31 and September 1, Ohio Nurserymen's Association, Miami hotel, Dayton.

September 5 and 6, Washington State Nurserymen's Association, Spokane and Tacoma, respectively.

September 7 and 8, Oregon Association of Nurserymen, Imperial hotel, Portland.

September 12 to 14, California Association of Nurserymen, Santa Cruz.

September 8 to 10, Virginia Nurserymen's Association, Nansemond hotel, Ocean View.

September 12 to 14, California Association of Nurserymen, Casa del Rey hotel, Santa Cruz.

September 14, Western New York Nurserymen's Association, Newark Country Club, Newark.

September 25 to 28, American Institute of Park Executives, Baker hotel, Dallas, Tex.

September 28 and 29, diamond anniversary, Connecticut agricultural experiment station, New Haven.

## KANSAS DATES.

Members of the Kansas Association of Nurserymen will hold their summer meeting August 29 and 30 at Manhattan.

## MICHIGAN PROGRAM.

Extensive entertainment has been planned for the members and guests of the Michigan Association of Nurserymen who attend the summer meeting August 17 and 18 at the Hotel Vincent, Benton Harbor. The local committee arranging the program consists of A. W. (Dick) Krieger, Krieger's Wholesale Nursery, Bridgman, chairman; Clifford Emlong, Emlong Nurseries, Inc., Stevensville, and Harold Hunziker, M. J. Hunziker & Sons, Niles.

Thursday evening everyone will enjoy a smorgasbord at the hotel. The association's president, Charles Greening, Greening Nursery Co., Monroe, will preside at the Friday morning session where George Rose,

Henry Field Seed & Nursery Co., Shenandoah, Ia., will talk on "The Business Outlook." P. S. Farquhar, president of the First National Bank of Niles, will take for his subject, "A Banker Looks At the Nursery Business." C. A. Boyer, chief of the Michigan bureau of plant industry, Lansing, will report on the operations of his bureau, and Harold Hunziker will report on the recent diamond jubilee convention of the American Association of Nurserymen. A short business session will be held after luncheon.

## SOUTHERN ASSOCIATION TO VISIT CHARLESTON.

Social activities, excursions and well known speakers will be included on the program August 22 and 23 when the Southern Nurserymen's Association holds its annual meeting at the Francis Marion hotel, Charleston, S. C. F. J. Aichele, Jr., Carolina Floral Nursery, Charleston, is chairman of the arrangements committee.

Tours scheduled for Tuesday and Wednesday afternoons include a harbor trip to old Fort Sumter, a

## ORNAMENTAL EVERGREENS

### Trees & Shrubs

## BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

The **CHRYSANthemum** CATALOG you cannot afford to be without.

**WONDERLAND NURSERIES**  
Ellerson, Va.

## AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

**THE TANKARD NURSERIES**  
EXMORE, VA.

## EVERGREENS

Seedlings and Transplants  
For Fall, 1950, and Spring, 1951  
Write for price list.

**SUNCREST EVERGREEN NURSERIES**  
JOHNSTOWN, PA.

visit to the "moth ball fleet" at the Charleston Navy Yard and sight-seeing tours of beautiful gardens and other points of interest at historical Charleston.

The South Carolina Nurserymen's Association will be host for a get-acquainted party and square dancing in the Gold room of the hotel, Tuesday evening.

President W. C. Daniels, Charlotte, N. C., will preside at the business session Wednesday morning. After Mayor Morrison greets the nurserymen, the president will introduce ten speakers for 5-minute talks each. Mrs. Margaret F. Higdon, Old Fort Camellia & Azalea Nursery, Charleston, S. C., will discuss camellias; Hubert A. Nicholson, Southern Nursery & Landscape Co., Winchester, Tenn., fruit trees; Dr. William C. Frierson, Frierson's Flowers, Denmark, S. C., azaleas; Walter E. Campbell, Greensboro, N. C., "Beating the Chiselers"; C. Elwood Stephens, Semmes Nurseries,

## TAXUS

### HICKS'

10,000	8 to 12 ins.,	Per 1000
	4 yrs., XX.....	\$ 350.00
5000	12 to 14 ins.,	
	5 yrs., XX.....	500.00
2000	18 to 20 ins.,	
	7 yrs., XX.....	1,350.00

### UPRIGHT BREVIFOLIA

10,000	4 yrs., XX.....	350.00
5000	10 to 14 ins.,	
	5 yrs., XX.....	500.00
500	14 to 18 ins.,	
	6 yrs., XX.....	900.00
2000	18 to 24 ins.,	
	7 yrs., XX.....	1,350.00

### KELSEY BERRYBUSH

1500	14 to 18 ins.,	
	5 yrs., XX.....	900.00

### SPECIAL

3500 plants, 20 to 28 ins., \$1.50 each.  
One block of finished landscaping stock.

Three times transplanted, mixed varieties, Hicks', Vermeulen, Spreading, Intermedia, Kelsey, Hatfield. Your own digging and transportation.

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Sugar Hollow DANBURY, CONN.  
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## BULBS

HYACINTHS, TULIPS, NARCISSI, CROCUSES, etc.  
Direct from our Nurseries in Holland.

**NONE but the BEST**  
Write for list.

### NEAL BULB CO.

13-18 Ellis Ave. Fairlawn, N. J.

# 20 MILLION TREES A YEAR!

Complete line of Nursery Stock—Evergreen Seedlings and Transplants, Hardwood Seedlings, Fruit, Shade and Nut Trees, Roses, Berries, Shrubs and Rhododendrons.

**MUSSER FORESTS, Inc.**  
Indiana, Pa.



**LARGE STOCK**

We offer the following for fall.  
All first-class stock.

**American Arborvitae**, 6 to 9 ft.

**American Arborvitae**,  
XX, 2 to 2½ ft.

**Hemlock**, 6 to 9 ft.

**Andorra Juniper**, 2 to 3 ft.

**Burki Juniper**, 5 to 6 ft.

**Elegantissima Juniper**, 6 to 8 ft.

**Hetzi Juniper**, 15 to 24 ins.

**Hetzi Juniper**, XX, 8 to 12 ins.

**Hetzi Juniper**, R.C.,  
\$75.00 per 1000.

**Hill's Juniper**, 4 to 6 ft.

**Irish Juniper**, 18 to 24 ins.

**Pfitzer Juniper**, 4 to 6 ft.

**Mugho Pine**, 2 to 4 ft.

**Blue Spruce**, 4 to 6 ft.

**River Birch** (shrub form),  
8 to 12 ft.

**White Birch**, 2 to 3½-in.

**Red Dogwood**, 3 to 4 ft.

**White Dogwood**, 8 to 10 ft.

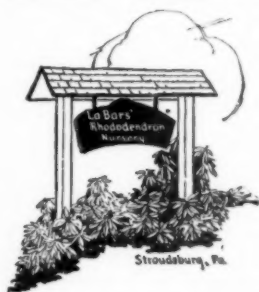
**American Elm**, 1½ to 3-in.

**Red Maple**, 2 to 3-in.

**Sweet Gum**, 2 to 3½-in.

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Semmes, Ala., laborsaving machinery; H. B. Chase, Chase Nursery Co., Chase, Ala., ornamentals, and Donald Hastings, H. G. Hastings Co., Atlanta, Ga., the business outlook.

"Insects Are Here to Stay" will be the title of the talk given by C. H. Brannon, entomologist, North Carolina department of agriculture, Raleigh. And "New Insecticides for Nursery Use" will be discussed by Dr. M. D. Farrar, entomologist, South Carolina experiment station and crop pest commission, Clemson. "Protecting Peach Stock from Peach Mosaic and Phony Peach Disease" will be the subject of a talk by T. D. Persons, assistant project leader of phony peach disease control, Macon, Ga. Concluding the morning session will be a talk on landscaping of housing units by Eugene R. Martini, landscape architect, Atlanta, Ga.

John Wight, Cairo, Ga., vice-president of the American Association of Nurserymen, will be keynote speaker at the luncheon in the Colonial room.

After the luncheon, nurserymen will have an opportunity to go on any of the tours which they may have missed the preceding afternoon.

Everyone is invited to a cocktail party in the Gold room, Wednesday evening, before the banquet in the Colonial room. Mr. Hitt, editor of the Charleston Evening Post, will be master of ceremonies. L. Mendel Rivers, United States congressman from South Carolina, will be the principal speaker. A floor show and dancing will follow.

A morning business meeting Thursday will be the final session. Arthur L. Shepard, land planning consultant, will discuss "FHA Planting Objectives."

**TEXAS PLANS.**

Merchandising and salesmanship will be the main subjects discussed when the Texas Association of Nurserymen holds its annual convention, August 21 to 23, at the Rice hotel, Houston. Since the nursery business has become more competitive, members have suggested that emphasis on these two subjects was more essential right now than on the propagation and growing of nursery stock.

Tentative speakers for the program include Prof. A. F. DeWerth, head of the landscape art department, Texas A. and M. College, who will discuss new features in propagation and describe the nursery management course that was recently started at the college; Howard Past,

**LINING-OUT STOCK**

Two-year Grafts in:

**Lilacs in Choice Varieties**  
(true-to-name)

**Purple Beech Riversi**  
**Red Japanese Maple**  
**Wisteria Rosea** (pink)

One-year Grafts in:

**Koster Blue Spruce**  
**Lilacs in Choice Varieties**  
(true-to-name)

**Thuja Pyramidalis**  
**Viburnum Carlesi**

Two-year Transplants in:

**Azalea Mollis** (improved strain)

**Cotoneaster Divaricata**

**Euonymus Vegetus**

**Ilex Convexa** (cuttings)

**Magnolia Soulangeana**

(2-yr. cuttings)

**Taxus Cuspидata** (spreading)

**Taxus Hatfieldi**

One-year Transplants in:

**Forsythia Spring Glory** (new)

**Juniperus Hetzi**

**Juniperus Meyeri**

**Magnolia Soulangeana**

(grown from cuttings)

**Philadelphus Virginialis**

**Taxus Capitata** (from Japanese seeds),  
strong, 2-year seedlings

**Taxus Brevifolia**

**Taxus Hicksi**

4-year, twice transplanted

**SALABLE STOCK**

DDT-treated to be shipped outside  
beetle area.

**Taxus Cuspидata** (spreading).

15 to 18 ins. and 18 to 24 ins.

**Taxus Capitata**,

2 to 2½ ft. and 2½ to 3 ft.

**Taxus Hatfieldi**,

18 to 24 ins., 2 to 2½ ft.

and 2½ to 3 ft.

**Taxus Hicksi**,

2½ to 3 ft.

**SHRUBS**

**Forsythia Spectabilis**

**Forsythia Spring Glory** (new)

**Philadelphus Virginialis**

**Weigela Vanickei**

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Dwarf roses, Forest plants, all varieties,  
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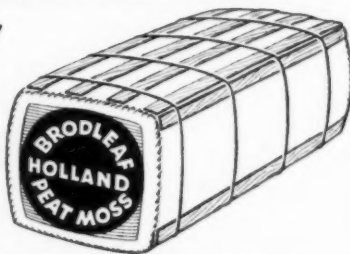
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sales supervisor of the Monrovia Nursery Co., Monrovia, Calif., who will talk about displaying and merchandising of nursery stock, with special emphasis on the possibilities of extending the nursery selling season, by handling plants in cans and other containers; Betty Ferguson, landscape architect, Victoria, Tex., and Mancill Allen, Mancill Allen Nursery & Clinic, Houston, whose subjects have not yet been announced. A representative from the American Association of Nurserymen will also be present.

Social activities, being planned by Frank Cornelius, Cornelius Nurseries, Houston, will include a barbecue at one of the city's recreational areas, a banquet and a dance. The Houston Landscape and Nurserymen's Association has invited conventioners to a cocktail party on Tuesday when they return from a bus tour of Houston. The commercial exhibits will be set up in the reception hall of the hotel.

#### NORTHWEST MEETING.

Several meetings of nurserymen in the Pacific northwest area have been scheduled for September. On September 5 the Washington State Nurserymen's Association will meet at Spokane, and it will hold another meeting at Tacoma on September 6.

The Oregon Association of Nurserymen will hold its fall meeting September 7 and 8 at the Imperial hotel, Portland.

#### CALIFORNIA NURSERYMEN PLAN ANNUAL CONVENTION.

For their fortieth annual meeting, members of the California Association of Nurserymen will meet September 12 to 14 at the Casa del Rey hotel, Santa Cruz, for a 3-day convention featuring nationally known speakers, special tours and social activities.

Rilea W. Doe, executive vice-president of Safeway Stores, Inc., Oakland, Calif., has entitled his subject "Let Us Get a Toe Hold." Manchester Boddy, editor and publisher of the Los Angeles Daily News and owner of the Rancho del Descanso Nursery, La Canada, Calif., will review the problems that nurserymen encountered during World War II and will suggest solutions for the potential problems that nurserymen will face during the economic turmoil of today. Sydney Whitehorn, Fresno, president of the association; Richard P. White, executive secretary of the American Association of Nurserymen, and Howard P. Quad-

land, publicity director of the A. A. N., will also speak.

Besides visiting Antonelli Bros., begonia growers at Santa Cruz, the nurserymen will have an opportunity to tour the famous hybridizing gardens of Vetterle & Reinelt and to see the tuberous begonias grown at the Brown Bulb Ranch, both at Capitola. September 13 the active sportsmen may also play tennis and golf or go swimming and fishing in the popular vacation area of Santa Cruz.

#### NUT GROWERS' PROGRAM.

Heavily scheduled is the convention program of the Northern Nut Growers Association, which will hold its forty-first annual meeting August 28 to 30 at Pleasant Valley, N. Y.

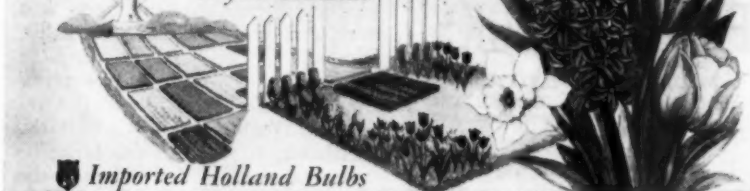
Prior to the convention, a meeting of the board of directors will be held at 8 p. m. Sunday evening at the Nelson House, Poughkeepsie. The convention will open at 9 a. m. with a business session which will include the president's address, by Mildred Jones Langdoc, Erie, Ill., and the reports of J. C. McDaniel, Nashville, Tenn., secretary; Sterling A. Smith, Vermilion, O., treasurer, and the chairmen of the standing committees.

At the afternoon session, Spencer Chase, Norris, Tenn., will discuss the status of Carpathian walnuts in North America and plans for the annual Carpathian walnut contest. W. B. Ward, Lafayette, Ind., will tell about the variety in Indiana, while Carl Weschcke, St. Paul, Minn., will present a resume of his fourteen years of work with the Carpathian walnut in his state.

The growing of Persian walnuts in their respective states will be described by J. F. Wilkinson, Rockport, Ind.; L. Walter Sherman, Harrisburg, Pa., who will also speak for Ohio, and Gilbert Becker, Climax, Mich., who will also refer to his work with black walnuts. Notes on nut growing in New Hampshire will be presented by Matthew Lahti, Boston, Mass., and I. W. Short, Taunton, Mass., will relate his experience in growing filberts. Concluding the day's program will be an evening of round-table discussion on nut varieties. Dr. H. L. Crane, principal horticulturist, nut investigations, of the United States Department of Agriculture, Beltsville, Md., will be chairman.

With Dr. J. W. McKay, also of the Beltsville station, Dr. Crane also will start the Tuesday morning session with a discussion of the bunch

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New and leading varieties of fruit trees.

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disease of walnuts. Dr. J. A. Adams, entomologist at the New York agricultural experiment station, Geneva, will present his observations on the Japanese beetle's effect upon nut trees, and John H. Painter, Corvallis, Ore., will give his observations of the past year's low winter temperatures' effect on walnuts and filberts in Oregon and Washington. J. U. Gellatly, Westbank, B. C., will tell how the same seasonal weather affected the nut trees growing in British Columbia.

Reporting on their work in their respective states, D. C. Snyder, Center Point, Ia., and Gilbert L. Smith, Millerton, N. Y., will discuss hickory varieties. R. E. Silvis, Massillon, O., will report on the 1949 hickory nut contest held in his state. "How About the Butternut?" will be the subject of Dr. L. H. MacDaniels, of the agricultural experiment station at Cornell University, Ithaca, N. Y., and vice-president of the association. Nut growing near the Lake Erie region will be the subject covered by Ross P. Wright, Erie, Pa.

During the afternoon session, W. S. Clarke, Jr., State College, Pa., will describe the progress made in nut culture at the Pennsylvania State College, while Prof. T. J. Talbert, department of horticulture and forestry, University of Missouri, Columbia, will tell of the nut culture accomplished in Missouri.

"Experiences in Developing a Nut Orchard" and "Is the Farmer Missing Something?" are the respective subjects of Edwin W. Lemke, Washington, Mich., and John Davidson, Xenia, O.

Chestnut growing in western New York, in Connecticut, in Pennsylvania and in the Hudson valley will be the subjects of reports given by George Salzer, Rochester, N. Y.; Dr. A. H. Graves, Wallingford, Conn.; Roy D. Anthony, Harrisburg, Pa., and Alfred Szego, Jackson Heights, N. Y.

Gilbert L. Smith and many other members will demonstrate their most successful methods for budding and grafting different nut trees and other crop trees, while Stephen Bernath, Poughkeepsie, N. Y., will show his method of propagating nut trees in pots in the greenhouse.

A short business session will be held after the banquet at the Beekman Arms hotel, Rhinebeck, Tuesday evening, and Dr. MacDaniels will give an illustrated lecture on "Plants and Peoples of the Southwest Pacific."

Field trips on Wednesday will take the members to the nut tree plantings at the Wassaia state school, to

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250 at 1000 rate.

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Bernath's Nursery, Poughkeepsie, and to Benton & Smith Nut Tree Nursery, Wassaic. Everyone will enjoy a picnic lunch at the state school.

During the business sessions at Pleasant Valley, ladies of the neighborhood will serve the luncheons, and a local committee has planned a program for the lady guests that will include a visit to the Roosevelt memorial and to other points of interest.

#### CHRISTMAS TREE GROWERS PLAN SUMMER MEETING.

John E. Bachert will be host to the Pennsylvania Christmas Tree Growers' Association August 26 on the 150-acre Bachert farm at New Ringgold.

The fifth annual summer meeting will begin at 9:30 a. m. at the Bachert home. Afterward the members will have an opportunity to inspect the farm and to learn of the long-range planning, care and production of seventy acres of Christmas trees. Mr. Bachert has some American red and Scotch pines that are 26 years old, besides numerous other spruce and firs for Christmas tree production.

Ladies of the Union church at McKeanburg will serve a chicken dinner at noon, and the association's afternoon meeting will be held at 2 p. m. at the church. John H. Stewart, of Warren county, will be moderator for a panel discussion of the problems involved in the production, marketing and improvement of Christmas trees. Concluding the afternoon session will be a short business meeting.

Officers of the association, whose headquarters are located at 103 Telegraph building, Harrisburg, Pa., are M. C. Stewart, Homer City, president; H. W. Jeffers, Plainsboro, N. J., vice-president, and Fred R. Strathmeyer, York, secretary-treasurer. The association publishes timely bulletins for its members. In the current issue is a report indicating that more than the usual acreage was planted to Christmas trees this spring and that planting stock was in better supply than for several years. Present indications point to a good demand for high-quality trees and no reduction in prices.

#### RAILROAD FLOWER SHOW.

Sometimes called "the largest garden club in America," the Pennsylvania Railroad Garden Club will hold its sixteenth annual dahlia and fall flower show September 7 and 8,

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FRENCH HYBRID LILAC, 1-yr. grafts.

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**PECAN TREES**

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4 to 6 ins., for transplanting into beds

Junipers  
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in the Pennsylvania station, on Thirtieth street, at Philadelphia. This floral exhibition is the largest showing in the east of outdoor flowers grown by amateurs. The club's president, Edward A. Smith, reports that last year's entries came from twenty-seven states and Canada. The club was organized in 1936 for the purpose of creating and developing an interest in the culture of flowers by employees of the Pennsylvania Railroad and members of their families.

## CONNECTICUT STATION'S JUBILEE PROGRAM.

Connecticut's state agricultural experiment station will observe its seventy-fifth birthday September 28 and 29 with a special program that includes open house, a program of outstanding speakers, a symposium on "The Research Institute in Modern Society" and a formal dinner. More than 3,000 leading scientists, agriculturists and officials have been invited.

During the open house scheduled for the first day, a series of special demonstrations has been arranged to show the current work being done at the station, and all of the laboratories will be operating and open for the visitors to see.

At the afternoon meeting, Thursday, Arnold Nicholson, managing editor of Country Gentleman, will speak on "Why an Agricultural Experiment Station?" At 8 p. m., visitors will hear Dr. Detlev W. Bronk, president of Johns Hopkins University and president of the National Academy of Sciences.

Dr. Edmund W. Sinnott, director of the Sheffield scientific school and dean of the graduate school at Yale University, will be moderator of the symposium on "The Research Institute in Modern Society." Four distinguished scientists will take part in this. They are Dr. George O. Curme, Jr., vice-president in charge of chemical research, Union Carbide & Carbon Corp., New York, N. Y., who will speak on "Industrial Research"; Dr. S. A. Waksman, head of the department of microbiology, New Jersey agricultural experiment station, New Brunswick, who will discuss "Governmental Institutes"; Dr. Alexander Wetmore, secretary of the Smithsonian Institution, Washington, D. C., who will talk about "Endowed Institutes' Research," and Dr. E. C. Stakman, chief of the division of plant pathology and botany at the University of Minnesota, who will discuss "Universities."

Concluding the anniversary cele-



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Evergreen Liners

Specimen Evergreens

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Philadelphus Minnesota Snowflake  
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Apple Trees

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EVERGREEN GRAFTS, TRANSPLANTED  
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RARE ITEMS YOU DO NOT  
FIND IN MOST LISTS! Write!

**HILLTOP NURSERIES**  
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bration will be the banquet for delegates on Friday evening. Gov. Chester Bowles, chairman of the station's board of control, will be toastmaster.

#### COVER ILLUSTRATION.

##### *Tsuga Canadensis Fremdi.*

Most nurserymen and landscape gardeners are familiar with the Canada hemlock, *Tsuga canadensis*. It is probable, however, that not many are well acquainted with the variety fremdi pictured on the cover of this issue of the American Nurseryman.

The variety fremdi is described as being slower-growing than the species, densely branched and bearing dense, dark green foliage. The parent plant of this variety is reported as having been found in 1887 by a man by the name of Fremd, at Rye, N. Y. About 1897 the plant was shipped to the Koster Nurseries, at Boskoop, Holland. There it was propagated by grafting, using *Tsuga canadensis* as understock. Several thousand of the grafted plants were imported by Mr. Fremd and planted in the Rye Nurseries.

It is not being generally grown by nurserymen today, but its habit of growth and attractive foliage denote it as a worthy variety to propagate. The specimen pictured on the cover is growing in the Arnold Arboretum. A specimen was planted at the Hemlock Arboretum, at Far Country, Germantown, Pa., in 1932.

As far as is known, the Fremd Canada hemlock has much the cultural requirements as the species. The species prefers a soil that is moderately acid, well drained but retentive of moisture, rich and containing considerable organic matter. Good drainage is essential. The hemlock will stand full shade and will likewise stand full sun if not in a wind-swept situation or unusually hot climate. It does best in partial shade. The hemlock will stand pruning well and thus makes a wonderful hedge or screen in the cooler climates. Transplanting can be done in either fall or spring, with spring preferred. Propagation of the species is by seeds. The varieties are usually grafted, although some success has been obtained by the use of cuttings.

L. C. C.

FORMERLY proprietor of the Flower Gardens Nursery, New Orleans, La., Lee G. Lowe recently purchased a 35-acre site at Sipsey, Ala., where he will establish a small nursery and handle camellias and other ornamental shrubs and trees.

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## Rootstocks for Lilacs

Recent methods of propagation which should be of considerable value in the propagation of the common lilac are discussed by Dr. Karl Sax, director of the Arnold Arboretum, Jamaica Plain, Mass., in the July 14 issue of *Arnoldia*, the arboretum bulletin. By way of introduction, he points out that the varieties of common lilacs are generally propagated by cuttings or by budding or by grafting on privet or lilac rootstocks.

"There are certain disadvantages in all of these methods of propagation," states Dr. Sax. "Propagation by hardwood cuttings is usually unproductive. Softwood cuttings are more successful, but these must be made during the busy season. In either case the resulting plants grow slowly and ordinarily require three years to attain a height of two feet.

"Privet rootstocks are used extensively in the propagation of common lilacs, because budding or grafting can be done during the slack season, and a marketable plant can be produced in two years. If, however, the privet rootstock is retained, the lilac will suffer from graft blight. Twenty years ago K. S. Chester, working at the Arnold Arboretum, observed that lilac grafted on privet made good growth for several years. Symptoms of graft blight were evident, but had little effect until the plants were 3 to 5 years old. At that time the leaves became small, brittle and chlorotic, and plant growth was retarded. If, however, the privet rootstock is used only as a temporary nurse root, the graft blight does not persist, and a healthy plant is produced. By planting the grafts deep, the scions of most lilac varieties will strike root and replace the privet rootstock. But too often the deep planting is delayed or is inadequate, so that the privet root survives and injures the lilac in later years.

"Both the vulgaris lilac and villosa lilac have been used as rootstocks for the common hybrid lilacs. Shoots from the villosa rootstocks can be recognized and removed, but sucker growth from vulgaris rootstocks often cannot be readily differentiated from the grafted variety, and the rootstock growth may replace the grafted scion.

"There are many advantages in growing the common lilacs on their own roots, either by cuttings or by use of a nurse rootstock. There is no danger of graft blight, no possi-

bility of the rootstock's replacing the grafted variety, and the suckering from the own-rooted lilacs is the best insurance against the ravages of the lilac borer. On the other hand, the profuse development of suckers from the root produces so many stems that regular pruning is necessary to promote vigorous growth and flowering of the main stems.

"Several methods of propagation have been developed recently which should be of considerable value in the propagation of the common lilac. The Kerr method of grafting should permit the use of privet and other rootstocks, with much less danger of the persistence of the nurse root. This method takes advantage of hormone polarity. The piece root is grafted upside down, so that the root-promoting hormone is accumulated at the graft union and stimulates rooting of the scion and suppresses growth of the nurse root. This method has been used in the propagation of Arnold Giant forsythia, a variety which is hard to root from cuttings, by Richard Fillmore at the Arnold Arboretum.

"Another method of lilac propagation which appears to be promising is the use of the tree lilac as a rootstock or nurse root for the com-

mon lilac. The tree lilac, *Syringa amurensis japonica*, in Japan grows to be a tree thirty feet tall. Although it is in the subgenus *ligustrina*, it is compatible in grafting with most species and varieties of the *eusyringia*. The seedlings require two seasons' growth in New England before they are large enough to bud or to graft. The tree lilac seedlings have been budded and grafted, with various vulgaris varieties, with villosa hybrids and with hybrids between vulgaris and laciniata. All have made good growth. The average growth of common lilacs budded on tree lilac has been about eighteen inches the first year, although occasionally one-year whips have reached a height of nearly four feet. In most cases the bud union is very good, with a subsequent slight overgrowth of the tree lilac rootstock. There have been reports that the tree lilac overgrows the common lilac scion, but, to date, the graft unions appear to be perfect in most cases. The white-flowered varieties of common lilac budded on tree lilac have shown some evidence of incompatibility, as indicated by the swell-

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ing of the stem at the bud union.

"The tree lilac does not sucker from the root, and, as a result, the budded varieties develop a sturdy treelike growth. The common lilacs on tree lilac rootstocks make rapid growth the first year, but subsequent growth is less rapid. A 5-year-old Congo on tree lilac is less than six feet tall, but the plant is very sturdy. The trunk circumference, six inches above the bud union, is five and one-half inches. This specimen first bloomed in the spring of the fifth year, but others have bloomed in the third year. The villosa varieties on tree lilac usually bloom the second year.

"While it may be too early to predict the ultimate success of the tree lilac as a rootstock, the results, to date, are most promising. If a tree form of common lilac is not desired, the budded plants can be headed back to produce low lateral branches, or the graft union can be planted deep to force rooting from the scion. The use of the tree lilac as a nurse root would avoid all dangers of graft blight. The use of tree lilac rootstocks appears to merit trial by commercial propagators. The Arnold Arboretum has a limited amount of seeds for distribution to propagators who may be interested in testing the tree lilac as a rootstock for common lilacs."

## STRAWBERRY ROOT WEEVIL CONTROL PROMISING.

Promise of a practical control of the strawberry root weevil has been announced by John C. Schread, an experimenting entomologist at the Connecticut agricultural experiment station.

In a new circular, just issued by the station, number 174, on "Control of the Strawberry Root Weevil in Nursery Plantings," Mr. Schread revealed that low dosages of either Chlordane or benzene hexachloride give a complete kill of the weevil. In nurseries, the root weevil is most troublesome on conifers, especially hemlocks and American arborvitae. Small hemlock trees are often killed as a result of root feeding by the larvae. On arborvitae, little root feeding occurs, but the foliage and stems are attacked by the adult weevils.

Complete details on dosage and methods of application are given in the circular, which can be obtained by writing to the Connecticut agricultural experiment station, P. O. Box 1106, New Haven. It is free to residents of the state of Connecticut.

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# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

By E. Sam Hemming

## WEeping-FORMED TREES.

A number of trees with weeping forms have been introduced to the public by nurserymen during the past years. Most of these trees have been failures, largely because they are curiosities instead of plants with aesthetic usefulness. Usually hybrids or sports, they are propagated for their differences instead of for their beauty.

There are two notable exceptions, namely, the Japanese weeping cherry and the Babylon weeping willow. The Japanese weeping cherry, with single and double forms, has been grown by the nursery trade for many years and continues to increase in popularity. We have two in our driveway circle now that are almost 20 years old, have trunks better than one foot thick, are about fourteen feet high and measure sixteen to eighteen feet wide. When in bloom these two trees will make the most hardened individual stop and look at them.

The Babylon weeping willow, with its long, pendulous branches that brush their tips on the ground, always has a water association that is reached by no other plant. It is hard for anyone to think of a brook or a pond that lacks a willow's arching its branches over the bank to touch the water. It is unfortunate that canker has plagued this particular willow so extensively, because it has no suitable substitute, either among the other forms of willow or among other species of trees.

The weeping mulberry has gone the way of the *Catalpa bungei*. It is just as well that this has happened, however, because the weeping mulberry's foliage was much too coarse to make the tree graceful. The weeping form of the white dogwood is the nurseryman's attempt to "gild the lily." With its picturesque stiff-branched sprays of flowers, the ordinary dogwood is one of nature's masterpieces. The weeping type is nothing more than a botanical curiosity, with its grotesque, downward growth of branches. The same can be said for the weeping beech.

Many of our beautiful evergreen trees have naturally graceful and pendulous branches, such as the Canadian hemlock and *Cedrus deodara*. There is nothing in the least attractive about the weeping

forms of these trees, and they can be interesting only in an arboretum.

I do not suppose plant physiologists can tell us what happens in a plant hybrid to make it grow downward instead of upward. The tropism is probably akin to the one that makes the roots grow downward. That statement would imply that weeping plants are deformed or crippled plants, and that is the appearance that most of them give.

E. S. H.

## CLIMATE HARDINESS.

In her talk before the National Landscape Nurserymen's Association, July 18 at Washington, D. C., Mrs. Mary Deputy Lamson stressed the importance of considering the climate hardiness of a plant before using it in a planting job. Climate hardiness is a new term that deserves consideration in our business, but is, as yet, not too clearly defined.

Usually when we think of hardiness, we merely think, "Will the plant in question stand the winter's cold?" Yet, that is only one side of

a many-faceted subject. We are conscious of it in Maryland, for there are a number of commonly used plants in the north that suffer noticeably in our hot spells in late summer. To mention a few, blue spruce, white birch, sugar maple, mountain ash, white pine, balsam fir and even lilac do not thrive, although they may exist in such weather. Injury may occur directly, or what is more likely, the plants may become susceptible to borers or some other pests. The common horse chestnut has nearly all of its leaves burned up by the end of August, and from then on it is a forlorn sight.

Besides being too cold, or too hot, the climate may be too dry, too windy, too wet or too humid for the best growth of some plants. Certain broad-leaved evergreens like the American holly have a peculiar type of hardiness. This plant grows along the Atlantic coast line well up into Massachusetts, to Nantucket island and Cape Cod, but it will not thrive inland in drier yet somewhat warmer sections. Boxwood is still more exact in its demands and does not like the climate to be too cold, too dry or too wet, although it can stand a relatively high humidity.

Besides the climatic factors mentioned in the foregoing paragraphs, there are still others that are more obscure; for instance, the seasons

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may not coincide with the natural life cycle of a plant. A plant may flower or its fruit may ripen in winter. The pecan wood is seemingly never winterkilled, but the flowers are often frozen.

In still another direction, the amount of daylight may control some plants' time of growth and flowering and may cause them to grow late into the fall when the ground is often frozen. We find this true of a number of southern broad-leaved evergreens.

Not long ago I heard of a man in this section who had planted some sequoias with the comment that he wanted posterity to honor him 1,000 years from now. The sequoia will grow here, but it will no more live 1,000 years than its planter will. He would have come much nearer succeeding in his purpose if he had planted a white oak.

A number of years ago we planted several monkey puzzle trees. They were never winterkilled, but they just seemed to die, one here and one there, until they were all gone. They are, of course desert plants.

Many and beautiful Chinese magnolias have been moved to a climate where mild spells bring them into flower early, only to be killed later by frost. They would do better in a region where the winter stayed cold without warm spells.

To be really climate hardy, a plant must behave normally under the weather conditions usually prevalent in the chosen area. E. S. H.

### THE AGE OF TREES.

The average customer has only the vaguest idea as to the age of a mature shade tree, and I, too, confess that I was ignorant of the facts until I took the trouble to investigate. To most persons any tree over two feet in caliper must be 100 years old. The truth is that in most cases the life cycle of a tree is less than 100 years.

When one speaks of old age in trees, one immediately thinks in terms of giant redwoods, Douglas firs and other examples of trees in virgin forests, but these really are exceptions. There are other instances where trees reach considerable age. Here in Maryland the white oak grows to large proportions and, in individual cases, to great age. The Wye oak, one of America's famous trees, is estimated to be between 450 and 500 years old. It is located within ten miles of our nursery.

What really aroused my interest in the age of trees occurred about

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ten years ago during a visit to one of the older estates in this section. Along the driveway was a mixed avenue of oaks, both red and white. Most of the trees were about four feet in trunk diameter. While talking to the manager I made the usual silly remark that these oaks must be more than 100 years old. He turned and said, "No, my father put those in about sixty years ago." One of the trees had died recently and been cut down, so we went to the stump and counted the rings, and, of course, he was correct. I also could not help but notice that some of the annual rings formed during the tree's vigorous youth were at least one-half inch in thickness and that the tree had increased in diameter one inch a year. Oaks are not slow-growing. Among other trees on the same place were three Nordmann firs that had been planted at the same time. They are now about 100 feet tall.

On another famed old place the driveway was planted with beeches, oaks and other hardwood trees, most of which are now falling apart, partly from neglect during a certain period of their lives. The present owner smilingly remarked that her father planted them when she was a little girl.

The land along the Chesapeake bay was settled from 1670 on, and there are a number of old colonial estates still intact. I have made an effort to find or trace trees that were planted back in those days, but not with any success. Most of the giants that I run across seem to date not to colonial times, but to that period of plantation prosperity around 1840, just prior to the Civil war.

On another old place which I first visited some ten or twelve years ago I found the remnants of 5 and 6-foot honey locusts and 4-foot English lindens; both kinds probably had been planted in the same period. When I visited the same place this year, no vestige of the honey locusts remained. This property was once owned by a signer of the Declaration of Independence.

After twenty years' experience in planting trees both on our own nursery and customers' property, I have a better perspective of the time it takes to grow a tree. For instance, along our driveway we have some *Cedrus deodara* and *Cryptomeria japonica*. Both kinds are around 20 years old, and both are at least forty feet tall. Similarly, oaks, beeches and other hardwoods on our property are in the neighborhood of forty to fifty feet tall and sixteen to eighteen inches in diameter. An avenue of

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## BOXWOOD

Specimen Sempervirens  
Compact, good color with wide spread.

	B&B	Each
15 to 18 ins.....		\$4.00
18 to 20 ins.....		5.00
20 to 22 ins.....		6.00
22 to 24 ins.....		7.00

We also have a fair supply of Evergreens.

**JOHNSON'S NURSERY**  
BAXTER, TENN.

native red cedars which was planted fifteen years ago as 5-foot plants is now thirty to thirty-five feet high.

What deceives the customer is that a tree grows so slowly for two or three years after it has been planted, just while the customer is conscious of the lack of shade. Unless shown a cross section of a tree trunk, he does not realize that when the tree is young the annual rings are often only one-eighth to one-quarter of an inch wide, that during vigorous youth and early maturity they often exceed one-half inch in width and that during the last ten years before the tree's death they thin down again.

The life cycle of trees does not necessarily parallel that of man, for under certain ideal conditions, as in a virgin forest, or under continued care, the life expectancy of a tree may be indefinite, but, in general, it does parallel that of man. It is my own guess, and it is purely a guess, that most of the trees we plant or that volunteer in our forests do not have a life expectancy materially greater than man's three score and ten.

E. S. H.

#### DUTCH BULB CROPS.

Although the quality of bulbs this year is excellent, the supply of Dutch bulbs will not be so good as last year, although one cannot speak of a general crop failure, according to information forwarded by the Dutch Bulb Exporters' Association, Haarlem, Holland.

"Crops vary from farm to farm and it is hard to say that a certain variety is in short supply everywhere," states the release. "Nevertheless, the total quantity of bulbs available is considerably less than last year. This is particularly true of tulips, which were hit the hardest by unfavorable weather conditions the past spring and early summer. Supplies of hyacinths, daffodils and other types of bulbs are better, but nevertheless spotty. It is regrettable that a short supply should occur in a year when sales to America, Canada and other countries have been excellent. Increased demand has been generally due to the extensive advertising campaign, advancement in quality and the general increase in public interest."

ALTHOUGH there has been no change in the management, Knoll & Walters Perennial Farm, Route 2, Zeeland, Mich., is now being operated as Walters Gardens, D. Walters has announced.

## GROWING SATISFACTION

**CHERRY** — The finest block of cherry we have ever grown.

**PEACH** — Complete assortment of standard varieties.

**APPLE — PEAR — PLUM — GRAPES  
RHUBARB — ASPARAGUS**

**EVERGREENS** — Extra-select specimens. Grafted Junipers - Arborvitae - Euonymus.

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NEOSHO ★ ★ ★ MISSOURI



Our 66th Year

### MALONEY BROS. NURSERY CO., Inc.

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One of the largest producers in New York State of Hardy Upland-grown, Inspected for Trueness-to-name Fruit Trees, offers a complete assortment of

**Apple-Plum, 1 and 2-yr.**

**Std. and Dwarf Pear, 1 and 2-yr.**

**Sweet and Sour Cherry-Quince, 1 and 2-yr.**

**Peach, 1-yr.**

**Also a good assortment of  
Shrubs, Shade Trees, Evergreens.**

Write for Fall and Spring Wholesale Circular.

### *Ivan R. Congdon Nursery*

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Wholesale

NORTH COLLINS, N. Y.

Since 1918

**Grapevines, 1 and 2 years old**

**Blackberries, Currants and Shrubs**

**Black and Purple Raspberries, Tips and Transplants**

**Red Raspberries, No. 1 and Transplant Grades**

Grown in the heart of Erie County, New York,  
one of the largest small fruit sections in the world.

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Wholesale growers of Dependable  
**FRUIT TREES**

We solicit your list of wants.  
DANSVILLE, N. Y.



## FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

**KELLY BROS. NURSERIES, Inc.**  
DANSVILLE, N. Y.

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Let us quote on your requirements.

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Bridgman, Michigan

## SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

**GOLDEN MUSCAT**

also

Currants and Berry plants

**FOSTER NURSERY CO., Inc.**  
FREDONIA, N. Y.

## PECAN TREES

Stuart—Schley—Moneymaker	Each	Each
	per 10	per 100
18 to 24 ins. . . . .	\$0.90	\$0.80
2 to 3 ft. . . . .	1.00	.90
3 to 4 ft. . . . .	1.10	1.00
Limited Quantity.		

**CUMBERLAND VALLEY NURSERIES, Inc.**  
McMinnville, Tenn.

## A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

**BUNTINGS' NURSERIES, Inc.**  
Box 3 SELBYVILLE, DEL.

## OBITUARY

### Conway M. Blume.

Dr. Conway M. Blume, founder and president of Blume System Tree Experts, died August 1 in a hospital at Houston, Tex., after an illness of six weeks. He was 56 years old. At the time of his death, Dr. Blume was president of the Southern Shade Tree Conference and a director of the National Arborist Association.

Born in Bienville parish, Louisiana, Dr. Blume took his doctorate at Harvard University and began his career as a tree surgeon and landscape expert in Arkansas. His company was founded at Houston in 1923 and grew to be one of the largest of its kind in the country. Dr. Blume did extensive landscape work at Houston and at University of Texas, at Austin, and he served as consultant when the capitol grounds at Jackson, Miss., were landscaped.

Survivors include his widow, several brothers and a sister. A. H.

### Louis Kirch.

Louis Kirch, 81, of Louisville, Ky., died last month at St. Anthony's hospital at that city. He was the owner of Kirch Gardens, which he operated until two years ago when his ill health forced him to relinquish the management to a daughter.

Survivors include his widow, Mrs. Elsie Walker Kirch; a daughter, Mrs. Raymond E. Vaughn, and a brother, all of Louisville, and a sister at Denver.

### SOUTHWESTERN NEWS.

Mr. and Mrs. Earl D. Hartschen, Hartschen Nursery & Landscape Service, Cheyenne, Wyo., visited their former home in Iowa early in August. Mr. Hartschen reported business was good the past spring, for he sold out practically all stock through his landscape and cash-and-carry business.

The greenhouses of the department of horticulture at Kansas State College, Manhattan, were almost completely destroyed by hail during the latter part of June. One of the houses had just been reglazed prior to the storm.

Mr. and Mrs. John Sarber, Sarber Nursery Co., Topeka, Kan., visited the west coast during their vacation this summer.

In a statement to the trade, Mrs. Howard W. Ford, Tyler, Tex., announced, "I want all of our cus-

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Minnesota Fruit Breeding Farm creations.

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Evergreens, Fruit Trees, Shrubs, etc.

Send your surplus list to  
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## SMALL FRUIT PLANTS

Evergreens—Shrubs  
Asparagus—Rhubarb

Send for Complete Trade List.

**W. N. SCARFF'S SONS**  
NEW CARLISLE, O.

tomers to know that I am going to continue to operate the Howard W. Ford Nursery, with the assistance of Roy Todd as a partner."

Margie Korn, for seven and one-half years an employee of the David Hardie Seed Co., Dallas, Tex., has gone into business for herself at Dallas, under the name of Margie Korn Garden Shop, Inc. Her address is 5213 West Lovers lane. Her letterhead states that she is a garden consultant and a nationally accredited judge for flower shows.

A recent news dispatch from Garden City, Kan., told that the Blossom Shop & Greenhouse had been incorporated, with a capitalization of \$50,000. Mrs. Katherine Elsey and her father, Bryant Garnand, are the incorporators.

The address of the Garden Shop, Inc., has been changed from 4833 Mission road, Kansas City, Kan., to 6315 West Seventy-fifth street, Overland Park, Kan.

Recent contracts let by the Kansas state highway commission were as follows: Manhattan Nursery, Manhattan, \$4,896.80 in Harvey county; J. M. Hedges Co., Coffeyville, \$6,234.30 in Graham county, \$4,506 in Rooks county, \$1,927 in Leavenworth county; Vyril W. Levan, Ness City, \$810 in Osborne county; Sutton Nursery & Landscape Co., Independence, \$7,670.40 in Lyon county; Edward Heffel, Dorrance, \$2,782.55 in Grant county, and Tole Landscape Service, Independence, \$3,109 in Montgomery county.

J. P.

UNDER the name of Foothill Fertilizer & Nursery, Philip Cohn has opened a business at 2789 Foothill boulevard, Oakland, Calif.

NEWLY appointed sales representative in the northwestern and mountain states for the Monrovia Nursery Co., Monrovia, Calif., is Heber F. Felts.

ANNOUNCEMENT of James I. Meadows' appointment as manager of the Ramona Gardens Nursery, Pasadena, Calif., was made when the nursery opened a new retail outlet in conjunction with its wholesale azalea business.

INSTRUCTOR at El Camino College for the past three years and adviser to several southern California and Arizona nurseries, George V. Turner has joined the staff of Wishing Well Nursery, Riverside, Calif. He is a graduate of the University of Delaware and was a design assistant for many of the noted Wye estates in Maryland.

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- HEALTHIER FOLIAGE
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Listed below, timely items from our unusually large selection of Quality-Proved Liners. In 2¼ inch pots, they are safety packed in lightweight cartons FREE OF CHARGE. Prices F.O.B. Monrovia. Minimum quantity 25 per variety. Immediate shipment to any part of the country.

	EACH
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<i>Berberis thunbergi atropurpurea</i> .....	12c
<i>Bougainvillea brasiliensis</i> .....	15c
<i>Bouvardia Coral</i> .....	15c
<i>Ceratonia siliqua</i> .....	15c
<i>Gardenia veitchi</i> .....	15c
<i>Guava Yellow Strawberry</i> .....	12c
<i>Juniperus chinensis pfizeriana</i> .....	17½c
<i>Pinus radiata</i> .....	12c
<i>Prunus laurocerasus</i> .....	15c
<i>Pyracantha Rosedale (Trade Mark Reg.)</i> ..	17½c
<i>Rhynchospermum jasminoides</i> .....	17½c
<i>Thuya orientalis aurea nana</i> .....	20c
<i>Ulmus parvifolia sempervirens</i> .....	17½c

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AMERICAN NURSERYMAN

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CHICAGO 4, ILLINOIS

## Letters from Readers

### SAWDUST FOR SEEDBEDS.

Since James S. Wells' article on "The Use of Sawdust for Ericaceous Crops" appeared in the May 15 issue of American Nurseryman, many nurserymen have written to the editor about the practicality of sawdust for seedbeds, and one nursery firm claims to have used sawdust successfully for thirty-five years.

"We have read with interest the articles describing the use of sawdust in the nursery as they appeared in recent issues of the American Nurseryman. It seems to us that the writers of these articles believe that they have hit upon something unusual and new. All of which recalls to our mind the old adage, 'There is nothing new under the sun,' and constrains us to make a few comments of our own on this subject.

"It is our firm opinion, at least until proved otherwise, that W. K. LaBar, the founder of LaBars' Rhododendron Nursery, pioneered the use of sawdust in the nursery, especially its application to native ericaceous plants and hemlocks. Approximately thirty-five years ago, he formed the opinion that, since these plants thrived in their natural habitat on partly decomposed logs and stumps, it should follow that sawdust, just another phase of such logs and stumps, ultimately would do a similar job of growing these plants if it were applied to the soil in the nursery. Mr. LaBar, with his usual aggressiveness, started using sawdust as a mulch on all open areas and also occasionally in the shaded sections of the nursery.

"Prominent nurserymen of that period visited the nursery from time to time. When noting this use of sawdust, they held up their hands in horror and said that Mr. LaBar would kill the soil forever; that all the plants would die, and what have you! Contrarily, the plants thrived.

"At that time Mr. LaBar insisted that the sawdust must be, at minimum, 3 years old; that it must consist mainly of hardwood, the older the better, and that a minimum of hemlock sawdust must be included. It was not until some fifteen years

later that we learned that new sawdust could be used. The foreman of our West Virginia nursery used sawdust taken directly from the saws when he was mulching several hundred *Pieris floribunda* and *Rhododendron catawbiense* plants. These plants thrived as well as or even better than those on which the old sawdust had been used.

"Some fifteen years later this writer conceived the idea of incorporating sawdust in the ground where plantings were to be made. We adopted the procedure of spreading three to five inches of sawdust in conjunction with thirty or forty tons of manure over each acre, disking thoroughly and planting immediately. After the planting, we applied a mulch consisting of one to three inches of sawdust. By this method astonishing results have been secured in the growing of rhododen-

drons, azaleas, *pieris*, *kalmia* and hemlocks.

"We might comment further and state that it is our belief that further experimentation is necessary before using all pine or other types of sawdust with a full resinous content. We have had varying success in the use of sawdust for heeling and for sales bed areas when it is combined with fertilizers."

Russell Harmon, vice-pres.,  
LaBars' Rhododendron Nursery,  
Stroudsburg, Pa.

### OXIDE FOR DAMPING-OFF.

Parasitic fungi that cause damping-off of seedlings or cuttings have always been a source of annoyance to nurserymen. A solution to prevent this rotting has proved successful for one nurseryman, who says:

"I have found red copper oxide to be the best preventive I have ever tried for damping-off.

"My method is to make a stock

## WEEKS ROSES

*"California-grown — Quality Known"*

### BUSHES — CLIMBERS — TREES

Always a fine selection in both patented and standard varieties. All the leading hybrid teas and an exceptionally good list of climbers and floribundas.

Write any time for information — your inquiry is welcome and will receive prompt, personal attention.

### WEEKS WHOLESALE ROSE GROWER



O. L. WEEKS

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## BOOKING ORDERS NOW FOR 1950 DELIVERY

English Walnuts.

Southern and Western Pecans.

Pecans with branched and fibrous roots.

Twenty-five years' growing experience.

### LINWOOD NURSERY

Rt. 2, Box 476

TURLOCK, CALIF.

Readers are invited to contribute their views on trade subjects to this page. By the exchange of ideas and information, all are benefited.



solution consisting of one tablespoon of red copper oxide dissolved and shaken in two quarts of water until it reaches the color of red paint. Then I add water until the solution becomes deep pink in color. After spreading a wet burlap on top of the seeded flats, I put the solution in a sprinkling can and wet the burlap thoroughly.

"When I want to water every row in a flat of plants that are pricked out, I use a 5-gallon sprinkling can with a siphon hose connected to a hole at the bottom. I obtain the same results and have no more trouble from damping-off."

"I have tried this solution on conifers, seedlings, rhododendrons and vegetables. I have even repeated tomato plants in the same soil with only this treatment. I have not lost a single plant of any kind because of damping-off."

John Palinsky, Sr.,  
Greenhouse & Nursery,  
Binghamton, N. Y.

#### CAN YOU ANSWER THIS?

If you have used weed-killing sprays in plantings of azaleas and hollies, the editor will be pleased to have you write your experience for the benefit of the Pennsylvania nurseryman whose letter is quoted below. Your reply may be used for publication or will be sent only to the inquirer if you prefer. The subscriber writes:

"A couple of our nursery patches have been invaded by Canada thistle and another weed whose name I do not know, but whose foliage is like a chrysanthemum leaf. It also increases by underground runners."

"These two plants got a good start before we realized how difficult they are to eradicate. It has now come to the point where we shall have to give up those patches if we are not able to get rid of these particular weeds."

"We have tried hoeing and cultivating to no avail and are now spraying them with a 2,4-D compound. The latter kills off the top of the plants, but they come up lustily from the roots."

"The only solution I see is to dig them out carefully and meticulously—a slow and expensive job, and the difficulty is that the runners have got in among the roots of azaleas and hollies that are in the patches and will grow out again as soon as we stop digging."

"Do you know of any other nurserymen who are up against this problem and how they are dealing with it?"

## PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz

PORTLAND 14, OREGON

Paul E. Van Allen

### RHODODENDRON LINERS

An assortment of the best varieties. All once-transplanted and of excellent quality.

Ready for shipment September 1.

### Quality Stock

CONIFERS AND BROAD-LEAVED  
EVERGREENS  
SHADE AND FLOWERING TREES  
FRUIT TREE SEEDLINGS  
FRUIT TREES  
DECIDUOUS SHRUBS  
VINES AND BULBS  
PORTLAND ROSES  
NURSERY SUPPLIES

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MILTON Since 1878 OREGON

Flowering, Ornamental and  
Shade Trees

Oregon and Washington-grown  
Fruit Tree Seedlings

Angers Quince  
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Our Combination Carlots to  
Eastern Distributing Points assure  
minimum transportation cost.

We Solicit Your Want List  
For Season 1950-51

### A. MCGILL & SON

FAIRVIEW, OREGON

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CONSTANT VIGILANCE RESULTS  
IN QUALITY STOCK

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Flowering Ornamental Trees  
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Combination carloads to Eastern  
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### EVERGREEN LINERS

Azaleas, Conifers, Heathers, etc.  
Available in rooted cuttings and field  
transplants grown in sandy soil.

Write for descriptive, illustrated  
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Wholesale Propagators and Growers of  
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Wholesale Growers  
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### ROSES OLD and NEW

Fine crop two-year Oregon stock on  
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floribundas. Now booking orders for fall  
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### ROSES—TREE ROSES

A fine selected list including patented  
varieties. Highest quality—all field-  
grown.

Write for list and prices.

PACIFIC NORTHWEST ROSE NURSERY  
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### XMAS TREES and XMAS HOLLY

50,000 choice Xmas trees, all heights available.  
Variety, Douglas Fir. These trees are carefully  
selected and baled according to heights. Average  
price, 45¢ per tree, in carload lots.  
Berried English Holly, price, 40¢ per lb.,  
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Buyers' references gladly furnished.

CORNWELL CHRISTMAS TREE CO.  
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### LOS ANGELES CHAPTER.

The Los Angeles chapter of the California Association of Nurserymen met at Alhambra, July 19, and members enjoyed a delicious smorgasbord before the business meeting.

The main purpose of the meeting was the nomination of officers for the coming year. Homer Bonillas, of L. B. Merrick Nurseries, Whittier, chairman of the nominating committee, presented a slate. A lively discussion followed, and nominations were made from the floor.

Moulder Bros. Nursery's interesting and important experiment as a self-service nursery at Glendale was reported by Paul Moulder. The great satisfaction that the owners derive from the plan, plus added sales at less cost, created a great deal of interest, and, undoubtedly, this idea will be extended to other nurseries.

Hal White, of Ramona Gardens, Pasadena, reported on the apparent success of the garden forums held each Monday night at his nursery. In addition, he reported the increasing popularity with his customers of his keeping the nursery open Friday night for those who wish to buy stock to plant Saturday morning.

Robert Kunde, of Coolidge Rare Plant Gardens, Pasadena, reported on a new plant, gilibertia, which seems to offer great promise for southern California conditions.

R. E. Weidner, Sec'y.

### MOVE SANTA ANA GARDEN.

Effective with its recent affiliation with Claremont College, Claremont, Calif., Santa Ana Botanic Garden has been moved from its location in the Santa Ana canyon to an 80-acre block on the Indian hill mesa at Claremont.

In 1927 the late Susanna Bixby Bryant founded the garden in memory of her father, John W. Bixby, an

### FOR 1950 SEASON

Fruit Trees  
Small Fruits  
Fruit Tree Seedlings  
Flowering Trees  
Shade Trees  
Shrubs  
Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

### RICH & SONS NURSERY

Hillsboro, Oregon

### DEL RANCHO FORTUNA

FRUIT TREES  
and  
GRAPEVINES

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### LILIES

For Fall Sales and Planting

Our 1950 Descriptive Trade Price List is now available, offering a large variety of Lily Species and many of the newer Hybrids. Your copy sent promptly upon request.

EDGAR L. KLINE  
Lily Specialist LAKE GROVE, ORE.

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A thorough, constructive home training for employment or advancement in Nursery Operations, Park Supervision or Maintenance, Landscape Designing or Landscape Gardening. Send for Free bulletin. APPROVED FOR VETERANS.

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## OREGON'S BEST SOURCE OF GOOD ROSES

A complete list of HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

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### PACIFIC COAST NURSERY

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Pioneering Seedling Growers on the Pacific Coast Since 1914.

We have French and domestic Apple Seedlings, French and Bartlett Pear Seedlings, Mahaleb and Mazzard Cherry, Myrobalan and American Plum, Angers Rooted Quince Cuttings, Chinese Elm Seedlings, and English Privet; also Shade and Flowering Trees. For this season, the shade and flowering trees are all sold; however, we are taking orders for fall of 1951 or spring of 1952.

If you have never tried our stock, give us a trial order.

John Holmason & Sons, Props.

### ROSES

Two-year-old, field-grown plants. Send for wholesale list.

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*For The Finest***BUSH ROSES CLIMBING***Write for 1950-51 Catalog*

Specializing in bush and climbing roses EXCLUSIVELY, enables us this Season to present to the trade the finest "TOP-QUALITY" stock grown. Strong, field-grown 2-year-old, on Shafter & Ragged Robin root.

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SALES PLACE  
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Call FLeetwood 6-2490

early pioneer to California. Extensive botanical and horticultural research on native plants of California has been conducted at the garden, which has become famous for its large collection of more than 1,300 different species of California plants.

Staff members at the garden will cooperate with the graduate work in botany that is offered at the Claremont school, but the garden will continue to be an independent institution, with its own board of trustees, funds and staff.

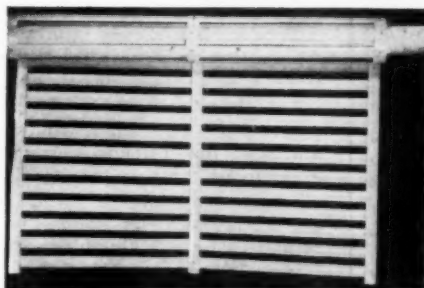
#### KALLMAN EXPANDS ORCHID-GROWING BUSINESS.

Bert T. Kallman, owner of Kallman's Garden Nursery Co., Santa Barbara, Calif., has purchased a 10-acre site outside the city, where he plans to expand his cymbidium cut flower business. Several thousand potted cymbidiums have already been moved to the new property.

Mr. Kallman has been selling orchids for the past five years. During the past year, he shipped approximately 5,000 of the cut flowers, and he hopes to double that shipment this year and to triple it by next year.

His new orchid farm is located on La Mesa between Cliff drive and the government lighthouse. The fog which so often covers the area around La Mesa only seems to incite the plants to grow. Only one-half of the ten acres is being developed now, and the other half of the land is leased until this winter for agricultural purposes. Some field stock of ornamental trees and shrubs has been planted. Old buildings on the land will be torn down, and a 53x200-foot lath house, only one of the proposed new buildings, has been constructed.

Ted Kallman, a son, will manage the new orchid farm, and a redwood home has been built for him and his bride.

**NEW! Alumalath in Rolls**

**Simplifies  
Lath House  
Construction  
Like Laying a Carpet**

5x50-ft. Alumalath Rolls may be put in place in a jiffy. With your framework up, you merely unroll Alumalath and nail it in place, and immediately you have uniform shading at low cost with long-lasting Alumalath . . . the metal lath house.

**THE MOST CONVENIENT CONSTRUCTION KNOWN**

Above you see a roll of 1-in. spaced Alumalath. It weighs but 30 lbs. It can be "applied like a carpet" . . . then nailed into place, perpendicular or horizontal.

Alumalath Rolls are available in 0-in., 1-in., 1½-in. or 2-in. spacings; also special spacings.

For greenhouses, patios and porches Alumalath is the buy. With cord attachment it will roll up or down as required and affords ideal protection, completely fireproof.

Some Territories Open for Distributors. Write or Wire.

**HARRY H. REYNOLDS**

2561 VALENCIA ST.

SANTA ANA, CALIF.

**California-grown Rosebushes —***Plus Service*

We specialize in growing rosebushes for sale at wholesale in lots of 100 to 10,000. Through specialization we are able to offer the best in rosebushes and service. Your inquiry will receive our prompt attention.

**HOWARD ROSE COMPANY**

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**Bedding Plant Boxes . . .**

Save Time . . . Save Money . . . Use Bedding Plant Boxes to put plants in when selling to customer — CLEAN — ECONOMICAL — EASY TO FOLD. 500, \$15.00; 1000, \$25.00. Write for samples.

**CARSCALLEN***Nursery Label Company*

65 WEST UNION ST., PASADENA, CALIF.



## The Redhead CAN SHEAR

**Is Now Rated  
INDISPENSABLE!**

**Not by us — By its  
NURSERYMEN Users**

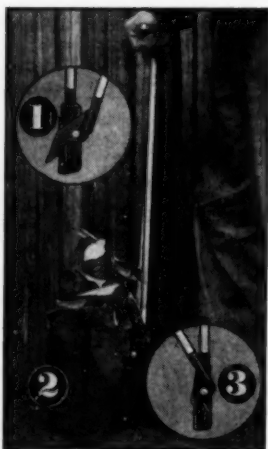
**From California to Florida!**

That's right! We know because we have just completed a survey on the usefulness of all our nursery laborsavers and 85% of the answers on this speedy can cutter called it

**"INDISPENSABLE."**

We admit that's a strong word. After all, there are other can cutters available. But, the Redhead is a strong tool and a fast tool, too! Well, it's just indispensable to any can-handling nurseryman if he is interested in reducing can-cutting time and labor.

*If you have not yet tried it, you  
are missing something good.*



**\$6.75 each; 3 for \$17.50**

F.O.B. Berkeley, Calif.

Also available from the following distributors:

Calvin D. Kinsman, Miami, Fla.  
Verhalen Nursery Co., Dallas, Tex.  
Wrightwood Floral Co., Houston, Tex.  
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For complete list of  
nursery tools write:

**Ayer-Line  
Industries, Inc.**

709 Jones St.  
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Our time is your time—Our business is  
your business! Call on it every time you  
need a timesaver!

## LEAF HOPPERS SPREAD WESTERN X DISEASE.

Leaf hoppers carry the virus that causes western X disease of peach trees, according to recent discoveries made by entomologists of Washington and Oregon agricultural experiment stations and the United States Department of Agriculture.

Studies made at Wenatchee, Wash., and at The Dalles, Ore., showed that one leaf hopper, or *Coladonus germinatus*, a greenish-yellow insect about one-fifth of an inch long, can carry enough of the virus to infect one healthy tree. Although the leaf hopper feeds on numerous kinds of plants, it frequents peach trees, other kinds of fruit trees and native shrubs in the northwestern and southwestern states.

Western X not only injures peach trees, but also is harmful to cherry trees. Cooperative experiments are being undertaken by the bureau of entomology and plant quarantine and by the Oregon agricultural experiment station to determine whether or not the spread of one of the cherry diseases caused by the virus can be prevented or retarded if insecticides are used to kill the leaf hoppers. Workers at the U. S. D. A. and at the tree fruit experiment station at Wenatchee are also studying the host relationship of the vector.

This is the third time that the entomologists have proved that leaf hoppers are carriers of the virus diseases of trees. In Georgia four species of leaf hoppers were found to carry phony peach disease in the southern states, and in Ohio a leaf hopper species carried the phloem necrosis disease of elm trees. Cooperating plant pathologists have provided diseased trees for these tests and then identified the disease in the successful experiments.

HAVING transplanted 14,000 evergreens, V. O. Hennen, Box 593, Hereford, Tex., is in the nursery business as Palo Duro Nursery.

THE sale of Kirby's Crenshaw Boulevard Nurseries, 14909 Crenshaw Boulevard, Gardena, Calif., has been announced, and the Kirbys are moving to the desert.

C. J. PARISH has announced the opening of his nursery at 6250 Thornhill drive, Oakland, Calif. Successful in the retail grocery business, Mr. Parish found his hobby of gardening so fascinating that he sold his grocery interests and went to work for a large Oakland nursery before starting his own business.

Look to  
*Stribling's*  
for

GROWING  QUALITY

fruit trees  
shade trees  
grape vines  
flowering trees  
field & container  
grown ornamentals



**S37 ROOTSTOCK** PLANT PAT. 904  
**BEATS OLD-STYLE ROOTSTOCKS!**

This new Nemalode Resistant Rootstock for Peach, Almond and Nectarine varieties is an outstanding sales promotion item for your retail sales. Here you have a Rootstock your customer can plant with safety in all types of soil. No need to stock several rootstocks to handle the varying soil conditions in your area. S-37 IS ADAPTABLE TO ALL SOILS.

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Get yourself on Stribling's Mailing List for your **FREE COPY** of this fact filled bulletin and the many other interesting and helpful selling aids and price lists available.

WRITE TODAY TO OUR MERCED OFFICE.

Backed by 40 years of growing experience

*Stribling's*  
**NURSERIES**



OFFICE and SALES YARD ON 99 HIGHWAY NORTH  
PHONE 86 P.O. BOX 793 MERCED, CALIFORNIA

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★ When packing bare roots or deciduous stock for shipment or storage, use Wood Feathers brand cedar shavings (red cedar shingle tow). There are 3 reasons for Wood Feathers' superiority:

1. Large moisture-absorbing capacity.
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**CEDAR SHAVINGS**  
P. O. BOX 98 NORTH PORTLAND, ORE.

**BALED SHINGLE TOW**  
(CEDAR SHAVINGS)

**WM. A. JOHNSTON**  
1722 N. W. 15th St. Portland 9, Ore.

**WANT ADS**Display: **\$3.00** per inch, each insertion.Lines: **25¢** line; Minimum order **\$2.00**.**HELP WANTED****ASSISTANT PROPAGATOR**

We wish to obtain the services of a young, intelligent and well informed plantsman to fill the above position.

Essential requirements are:

1. A fair knowledge of plant propagation.
2. An ability to accept a certain measure of responsibility and to handle unskilled labor.
3. A desire to learn.

The position is progressive and interesting and offers a wide scope to the right man. Give full details as to technical training, practical experience and salary required to:

**KOSTER NURSERY**  
Bridgeton, N. J.

**HELP WANTED**

Nursery manager for a high-quality small nursery in a growing midwestern community. Both landscape designing and growing experience necessary. References required. Address box 750, care of American Nurseryman.

**HELP WANTED**

Experienced propagator, skilled in production of lining-out stock of evergreens, shrubs and perennials. Give full details regarding qualifications and salary wanted.

**WILLIS NURSERY CO.**  
Ottawa, Kansas

**HELP WANTED**

Salesman with landscape and nursery experience. Unusual opportunity for highly profitable connection with large, prominent Philadelphia concern for qualified man. Salary, commission and bonus.

**AMERICAN FORESTRY SERVICE**  
Lancaster Pike Philadelphia 31, Pa.

**HELP WANTED**

Salesman for large wholesale nursery calling on trade in middle west. Good opportunity for one capable of producing the business. Address Box 748, care of American Nurseryman.

**HELP WANTED**

Man capable of assisting or handling office end of a long-established mail-order nursery business. A splendid opportunity. Business located in eastern part of United States. Address Box 742, care of American Nurseryman.

**HELP WANTED**

Landscape salesman. Prefer graduate landscape architect with nursery sales experience but will consider recent graduate. Position offers permanent employment with opportunity for advancement. State age, qualifications and requirements when applying.

**WOOD-HOWELL NURSERIES,**  
Inc.

Lee Highway Bristol, Va.

**HELP WANTED**

This may be an opportunity. I must retire after being in the landscape and nursery business for over forty years. I desire a college-trained man with a background of successful sales experience to join me in the business and eventually take over management or acquire part ownership. If interested, write for further particulars and tell me about your experience and background. Address Box 745, care American Nurseryman.

**HELP WANTED**

Woman to serve as secretary to the president of a large nursery in the midwest. Applicant should have actual stenographic experience and some knowledge of nursery terms and procedures. Initiative, good judgment and nice personality also requisites. Address Box 736, care of American Nurseryman.

**HELP WANTED — MALE**

Nurseryman, experienced in greenhouses, production, shipping and selling. Opportunity for working manager in expanding nursery. Give full details. Address P. O. Box 263, Thomasville, Ga.

**HELP WANTED**

Landscape foreman, thoroughly experienced on large housing unit and garden apartment project. Excellent opportunity. Address Box 747, care of American Nurseryman.

**HELP WANTED**

Foreman experienced in collecting large-caliper native trees. Must be able to take complete charge of digging crew. Address Box 746, care of American Nurseryman.

**WANTED TO BUY**

Good nursery within 50 miles of New York City, preferably at Westchester, Conn. State the size, approximate inventory, gross business, description of land and buildings in first letter. Address Box 743, care of American Nurseryman.

**FOR SALE**

Good, small nursery. Prosperous midwestern community, 100,000 population. Excellent landscape and drive-in business. Good crop evergreens and deciduous stock on property. All buildings, equipment, nursery stock to be sold as one unit. Ten to twelve acres of land under cultivation. A challenging business opportunity. Address box 749, care of American Nurseryman.

**FOR SALE****TO SETTLE ESTATE**

will sacrifice well established nursery. Over 10,000 trees and shrubs. 50 acres of land. Complete set of modern building and equipment. Irrigation system. 30 minutes from Twin Cities on paved highway. Write:

**J. P. KOELSCH, Realtors**  
2827 Hennepin Ave.  
Minneapolis 5, Minn.

**FOR SALE**

80-acre nursery on one of the busiest highways in the United States. 3000 feet of frontage on Rt. 20, 43 miles east of Cleveland, Ohio. One large home, one small home, five other buildings, one greenhouse, 2 irrigation systems, tractors, truck and all other equipment. 50,000 evergreens in the field, 50,000 lining-out stock and a lot of other stock. This is a very good, going business. You can start right in making money. If interested write, or better yet, call on us and see for yourself.

**RIDGE MANOR NURSERIES**  
E. J. Fields, Prop.  
Geneva, Ohio

**FOR SALE**

A 25-acre general nursery near Chicago, Ill., all planted in choice young nursery stock. Situated on Rt. 20 highway. Fine for cash-and-carry business. Also large house, barns and office. Terms: All cash. Address Box 725, care American Nurseryman.

**FOR SALE**

Old-established nursery, fully stocked and equipped. Good improvements. Operation large and profitable. Unusual opportunity.

**LOUIS WOOD, Realtor**  
21 S. Nevada Colorado Springs, Colo.

**FOR SALE**

Small nursery in town. Evergreens, shrubs and trees, two small greenhouses 10 x 30 ft. Stock and greenhouses, \$1,600.00 value. Four-room house and garage, city and artesian water. Property value \$600.00. Total \$650.00, \$300.00 cash. Good returns for two workers in family. Owner 82; forced to retire. P. O. Box 139, Carson City, Nev.

**FOR SALE**

Nursery at Burnet, Texas. Good trade territory. Duplex apartment on property, on highway 281. Good buy; price \$10,000.00. Contact:

**L. L. DIXON** Atlanta, Ga.  
706 Penn Ave., N.E.

# CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

## AZALEAS

**AZALEA LINERS.**  
Hinodegiri, Hinomayo, Ledifolia alba and Magnifica. Well branched and rooted, \$35.00 per 100. Azaleas, xx, from field beds, \$25.00 per 100. Cuttings of these and other varieties available in Sept., \$6.00 per 100. 1-yr. transplants, \$13.00 per 100 in May only. Shipped in Sept. Cash with order, no C.O.D.'s.  
**BUCKINGHAM NURSERY**  
Buckingham, Pa.

**AZALEA ROOTED CUTTINGS**—Formosa, Pride of Mobile, Coral Bella, etc. \$5.50 per 100, \$50.00 per 1000, postpaid.  
**SIMSON FLORAL GARDENS**, Semmes, Ala.

## BERRY PLANTS

**PIXWELL GOOSEBERRIES.**  
20,000 Pixwell Gooseberries, 2-yr. No. 1, mostly extra-heavy, 6c to 7½c each, if you take them all and dig them yourself. Will furnish tractor and operator free of charge for digging.  
**SCHWAB FRUIT FARM & NURSERY**  
220 N. Fifth St. Mankato, Minn.

**EVERBEARING STRAWBERRIES.**  
All the newest and best varieties. Fine, heavy-rooted, healthy plants.  
Write for 1950 price list.  
**McNEAL BERRY NURSERY**  
Hamilton, Mont.

The trade's market place—  
The ads in the American Nurseryman.

## BULBS and TUBERS

**HOLLAND-GROWN BULBS.**  
**DARWIN TULIPS**, 12 to 12 cm., \$5.00 per 100. Bleu Aimable (blue), La Tulipe Noire (brownish-black), William Pitt (red), Helen Eakin (white), Rose Copland (rose), Sun-kist (yellow), Pride of Haarlem (red), After-glow (apricot), Barlagon (red), Yellow Giant (yellow), William Copland (lavender), Prunus (pink).

**HYACINTHS**, 16 to 17 cm., \$12.00 per 100. Gertrude (pink), L'Innocence (white), Blamarch (blue), City of Haarlem (yellow), King of the Violets (purple).

**CROCUS**, 7 to 8 cm., \$2.00 per 100. King of the Blues (blue), Golden Yellow (yellow), Striped Beauty (white and blue), King of the Whites (white).

**MUSCARI** (Grape Hyacinth), 7 to 8 cm., \$2.00 per 100.

**DUTCH IRIS**, \$5.00 per 100. Yellow Queen (yellow), 8 to 9 cm.; Excelair (white), 7 to 8 cm.

**WEDGWOOD IRIS**, 9 to 10 cm., \$5.00 per 100.

**DAFFODILS** (Rounds), King Alfred, \$6.00 per 100.

**BENTON COUNTY NURSERY CO., Inc.**  
Rogers, Ark.

**PEONIES.**  
Strong 3 to 5-eye divisions of young stock.  
Per 100 Per 1000  
Avalanche, excellent white, \$2.50 \$30.00  
Jubilee, very large white, 4.00 35.00  
Q. Victoria, earliest cutting white 2.50 18.00  
Venus, fine light pink, 3.00 25.00  
Mixed pink, 2.00 15.00  
5 at 10 rate, 25 at 100 rate. Cash with order. No charge for packing.

**WHITE CLOUD FARM**  
Carthage, Mo.

**LILUM CANDIDUM**  
(Madonna Lilies).

North American grown. Per 100

Immediate Shipment. 7 to 8 inch clr. \$14.00

8 to 9-inch clr. 17.50

9 to 10-inch clr. 22.50

10 to 11-inch clr. 26.00

11 to 13-inch clr. 32.50

A. C. VANEL, Wholesale Bulb Grower.

Sodus, N. Y.

**RED PEONIES.**

Pay most profits. 90 per cent of the demand is for red varieties. They bring largest retail prices. Here are three best reds: Karl Rosenfeld, crimson; Mona Martin Cahuzac, darkest red; Longfellow, bright red. Divisions: \$5.00 per 10; \$40.00 per 100; \$350.00 per 1000. Cash with your order, please.

**PAYNE DAHLIA FARMS**

Route 5 Kansas City 3, Kansas

**HARDY NORTHERN-GROWN LILY BULBS.**

New, rare, scarce and unusual as well as standard varieties.

New wholesale list now ready.

Send for your free copy.

**J. HENDRIKS, Grower, Portage, Mich.**

**IRIS KAEMPFER**—10 named varieties, \$18.00 per 100. Mixed, \$16.00 per 100. Field-grown plants. Send for list. Cash with order.

**BUTTERNUT HILL NURSERY**  
R.F.D. North Wilbraham, Mass.

Peonies Available for Autumn Planting.

4,500 Edulis Superba  
4,000 Modeste Guerin  
5,000 Akashi-guta  
2,500 Mikado  
13,000 Mons. Jules Elie  
1,000 Laura Dessert  
3,500 Festiva Maxima  
1,000 Venus  
1,000 Richard Carvel  
3,000 Felix Crousse  
**STYER'S NURSERIES**  
Concordville, Pa.

## EVERGREENS

**AZALEAS, RHODODENDRONS and EVERGREENS.**

Prices per 10. 12 to 15 to  
Rhododendron Hybrida. B.B. 15 ins. 18 ins.  
Caractacus, red 25.00 \$32.50  
Dr. Dresselhuys, red 25.00 32.50  
P. D. Godman, red 25.00 32.50  
Prof. Bettex, red 25.00  
Van der Hoop, dark pink 25.00 32.50  
Roseum Elegans, pink 25.00 32.50  
Lee's Dark Purple 25.00 32.50  
Mme. Carvalho, white 25.00  
Mme. Masson, white 25.00  
Hybrida from seeds, mixed 12.50  
Azalea mollis, mixed shades 10.00 15.00  
Azalea kaempferi, mixed shades 10.50 16.00

**PLANTING STOCK.** Per 100  
Rhododendron Hybrid, TT, 5 to 8 ins. \$40.00  
Azalea mollis, TT, 4 to 7 ins. 16.00  
(\$155.00 per 1000.)

Azalea mollis, TT, 6 to 10 ins. 20.00

Azalea kaempferi, TT, 10 to 12 ins. 25.00

Azalea Sherwood Orchid, TT, 6 to 8 ins. 22.50

Azalea Hino-Crimson, TT, 5 to 7 ins. 25.00

Azalea Hardy Ghent, TT, 6 to 8 ins. 20.00

Azalea calendulacea, TT, 6 to 8 ins. 20.00

Leucothoe, TT, 8 to 10 ins. 25.00  
(\$225.00 per 1000.)

Pieris floribunda, TT, 8 to 10 ins. 25.00

Kalmia latifolia, TT, 8 to 10 ins. 20.00

Euonymus vegetus, TT, 8 to 10 ins. 15.00

Ilex glabra, TT, 12 to 15 ins. 35.00

Ilex convexa, TT, 10 to 12 ins. 30.00

Philzer Juniper, TT, 5 to 7 ins. 22.00

Andorra Juniper, TT, 5 to 7 ins. 20.00

Creeping Juniper, TT, 5 to 7 ins. 15.00

Hetz Juniper, TT, 5 to 7 ins. 20.00  
(\$190.00 per 1000.)

**Taxus** Per 100 Per 1000  
brevifolia, TT, 5 to 7 ins. \$22.00  
capitata, TT, 6 to 10 ins. 22.00 \$210.00

cuspidata, TT, 6 to 10 ins. 20.00 185.00

hickel, TT, 10 to 12 ins. 22.00 210.00

**American Arborvitae.**

2-2, 5 to 10 ins. 11.00 95.00

Canadian Hemlock.

2-2, 6 to 10 ins. 14.00 125.00

Norway Red Pine.

2-2, 12 to 15 ins. 12.00 110.00

White Pine, 2-2, 6 to 10 ins. 11.00 95.00

Scotch Pine.

2-2, 12 to 15 ins. 11.00 95.00

2-0, 6 to 8 ins. 4.00 35.00

Austrian Pine.

2-2, 8 to 10 ins. 11.00 95.00

2-0, 4 to 6 ins. 4.00 35.00

2-1, 5 to 7 ins. 9.00 70.00

Colorado Blue Spruce.

2-2, 6 to 8 ins. 11.00 95.00

White Spruce.

2-2, 6 to 8 ins. 9.00 85.00

2-2, 12 to 15 ins. 20.00

Norway Spruce.

2-2, 6 to 10 ins. 9.00 85.00

European Larch.

2-2, 12 to 15 ins. 12.00 95.00

All plants are well grown under ideal conditions. Good root systems. We are sure you will be pleased with the above stock.

**GIRARD BROS. NURSERY**  
Geneva, Ohio

**SPECIAL.**

\$500.00 for lot, or \$12.00 per 100.  
Potted liners, 2½-in.; bushy, heavy plants, 6 to 8 ins.

400 Retinospora plumosa aurea

500 Thuja plicata

500 Thuja reidi

500 Thuja pyramidalis

800 Euonymus japonica

800 Osmanthus aquifolium

600 Ilex crenata rotundifolia

500 Cotoneaster divaricata

200 Ilex cornuta burfordii

1000 Abelia grandiflora

1000 Nandina domestica

6400

**DUNLAP NURSERIES**

565 Scenic Drive Knoxville 16, Tenn.

**BOXWOOD.**

Buxus sempervirens.

4 to 6-inch, strong, field-grown, rooted cuttings, \$50.00 per 1000.

**MOUNTVILLE NURSERIES**

Mountville, Ga.

## QUALITY LINERS.

**Taxus hickel.** Each per 100  
5-yr. XX, 12 to 15 ins. \$9.50  
4-yr. XX, 10 to 12 ins. 5.00  
3-yr. XX, 10 to 15 ins. 3.25  
2-yr. X, 8 to 10 ins. 2.25  
**Taxus cuspidata.**  
5-yr. XX, 12 to 15 ins. 6.50  
4-yr. XX, 10 to 12 ins. 5.00  
**Taxus cusp. comp.** 3-yr. XX, 8 to 10 ins. 3.25  
**Taxus brevifolia.**  
5-yr. XX, 10 to 12 ins. 6.50  
4-yr. XX, 8 to 10 ins. 5.00  
**Taxus hatfieldi.**  
3-yr. XX, 8 to 10 ins. 3.25  
2-yr. XX, 6 to 8 ins. 2.25  
**Taxus capitata (tip cuttings).**  
3-yr. X, 12 to 15 ins. 4.50  
2-yr. X, 8 to 12 ins. 3.25  
Douglas Fir, 6-yr. X, 9 to 14 ins. 2.25  
Norway Spruce, 4-yr. X, 8 to 14 ins. 1.25

## TWO HARDY PERENNIALS.

(Blooming-size Plants.)

**Iris kaempferi, mixed colors.** Each per 100  
Hemerocallis kwanoo flore-pleno 1.15  
All above-listed stock in J.B. Coffey and can be shipped anywhere in the U.S.  
Terms: 5 per cent discount on orders of \$75.00 or more. Cash with order. Free packing.

**BALLED and BURLAPPED STOCK.**

Offered to the local trade only, who can call at nursery—not for rail shipment.

**Taxus capitata (sheared).** Each

2 ft., XXX \$4.00

2½ ft., XXX 5.00

2 ft., XXX 6.00

**Taxus hatfieldi.**

1½ ft., XXX 2.75

2 ft., XXXX 5.00

Colorado Spruce.

2 to 3 ft., XXX 2.50

3 to 4 ft., XXX 3.50

**Route 6 BROOKFIELD GARDENS**  
Delaware, N. J.

**Arborvitae.** Per 100 Per 1000

American, 4 to 6 ins., X, \$2.25 \$13.50 \$120.00

4 to 8 ins., X, 3.25 15.00 145.00

Nigra, 4 to 6 ins., X, 2.25 13.50 120.00

6 to 8 ins., X, 3.00 18.50

Elegantissima.

4 to 6 ins., X, 2.75 16.50 155.00

6 to 8 ins., X, 3.00 18.50

Globe, 4 to 6 ins., X, 2.00 15.00 145.00

6 to 8 ins., X, 2.50 16.50 155.00

Pyramidal, 4 to 6 ins., X, 2.50 16.50 155.00

Heavy, 6 to 8 ins., X, 3.50 20.00 185.00

Heavy, 8 to 10 ins., X, 6.50 25.00

Chinese, 2-yr. sdgls.

5 to 8 ins. 3.00 25.00

Chinese Compacta, 2-yr.

sdgls., 5 to 8 ins. 3.00 25.00

**Barberry, julianae.** Per 100 Per 1000

from cuttings, 4 to 6 ins., X, \$20.00

6 to 8 ins., X, 27.50

**Boxwood, Old English, dwarf.**

2-yr., T, 4 to 5 ins. 15.00 \$140.00

Juniperus depressa plumosa (Andorra).

4 to 6 ins., X, 16.50 150.00

6 to 8 ins., X, 18.50

Juniperus Hetzi, Hetzi's blue

Juniper, 4 to 6 ins., X, 18.00

6 to 8 ins., X, 20.00

Pieris japonica, 4 to 6 ins., X, 17.50

Pyraecantha lalandi, rooted

cuttings 8.00

**Yew,** 4 to 6 ins., X, 15.00 145.00

6 to 8 ins., X, 18.50 175.00

8 to 10 ins., X, 22.50 200.00

10 to 12 ins., X, 25.00 225.00

**Taxus cuspidata (dap. spreading**

Yew), 4 to 6 ins., X, 15.00 145.00

6 to 8 ins., X, 18.50

**Taxus cuspidata nana,**

4 to 6 ins., X, 18.50

Write for our complete list.

**ESHAM'S NURSERIES** Frankford, Del.

## LINING-OUT STOCK.

1-yr. bedded.

**Taxus hickel.** Per 100 Per 1000  
Taxus cuspidata 15.00 \$125.00  
Taxus hatfieldi 18.00 125.00  
Taxus brevifolia 20.00 200.00  
Tsuga canadensis.

2-yr. tr., 4 to 6 ins. 7.00 60.00

3-yr. tr., 6 to 9 ins. 11.00 100.00

4-yr. tr., 9 to 12 ins. 16.00 150.00

Complete list of liners on request.

**VERKADE'S NURSERIES** Wayne, N. J.

**EVERGREEN PLANT MATERIAL.**

ADVANCED LINERS in Azalea, Cornus,

Cotoneaster, Ilex, Juniperus, Kalmia, Leucothoe, Pieris, Rhododendron, Taxus, Thuja,

Tsuga, Viburnum.

Finished Trees in Colorado Blue Spruce.

All Certified for Western Shipment.

Write for Wholesale Price List.

**H. W. WEBER EVERGREEN NURSERY**  
16 Summer St. Weston 93, Mass.



## EVERGREEN LINERS AND CUTTINGS.

SPRING TRADE LIST, 1950.

POT-GROWN EVERGREEN LINERS.

Each—Per 100 Per 1000

Juniperus chinensis pfitzeriana,		
1-yr., 4 to 5 ins.	\$0.20	\$0.18
Juniperus horizontalis glauca,		
1-yr., 4 to 5 ins.	.20	.18
Arborvitae, Globe Woodward,		
1-yr., 3 to 4 ins.	.17	.15
Arborvitae, American Dark Green,		
1-yr., 3 to 4 ins.	.17	.15
Taxus media hicksii,		
2-yr., 5 to 6 ins.	.20	.18

## HEAVY ROOTED CUTTINGS.

From flats, rooted outside in lath house.

Each—Per 100 Per 1000

Juniperus communis hibernica,	\$0.08	\$0.07
Juniperus communis aschfordii,	.08	.07
Arborvitae, pyramidalis, outside flats,		
1-yr.	.09	.08
Arborvitae, American Dark Green	.09	.08
Taxus media hicksii, outside flats,		
1-yr.	.09	.08
Euonymus patens, outside frames,		
1-yr.	.07	.06

2 per cent discount and free packing for cash with order. Samples on request.

MIAMI NURSERY CO.

Tipp City, Ohio

## EVERGREEN LINERS FOR FALL, 1950

Per 100 Per 1000

1250 Andorra Juniper,		
9 to 12 ins. T.	\$20.00	\$175.00
5000 Andorra Juniper,		
8 to 10 ins. T.	15.00	125.00
1900 Bar Harbor Juniper,		
10 to 15 ins. T.	17.50	150.00
1600 Hetz glauca Juniper,		
8 to 10 ins. T.	15.00	125.00
2000 Hetz glauca Juniper,		
12 to 15 ins. T.T. heavy	50.00	450.00
1000 Pfitzer Juniper,		
8 to 12 ins. T. heavy	30.00	295.00
1000 Savin Juniper,		
r.c., 6 to 10 ins.	15.00	125.00
500 Globe Woodward Arborvitae,		
6 to 8 ins. T.T.	15.00	135.00
1000 Pyramidal Arborvitae,		
9 to 12 ins. T.T. heavy	35.00	325.00

These are heavy field transplants. We know that you will like them. Cash with order, please. No charge for packing.

WHERRY'S NURSERIES St. Marys, W. Va.

## LINING-OUT STOCK.

POTTED EVERGREENS.

Variety and height Per 100

Juniperus depressa plumosa,		
6 to 8 ins.	\$17.50	
Juniperus excelsa striata, 6 to 8 ins.	17.50	
Juniperus hetzi, 6 to 8 ins.	20.00	
Juniperus hibernica, 6 to 8 ins.	17.50	
Juniperus pfitzeriana, 8 to 10 ins.	30.00	
Juniperus sabina, 6 to 8 ins.	17.50	
Taxus cuspidata, 6 to 8 ins.	22.50	
Taxus hicksii, 6 to 8 ins.	25.00	
Thuja pyramidalis, 8 to 10 ins.	22.50	
Thuja pyramidalis, 10 to 12 ins.	25.00	
Thuja sibirica, 6 to 8 ins.	20.00	
Thuja woodwardii, 6 to 8 ins.	20.00	
Retinospora plumosa aurea,		
10 to 12 ins.	22.50	

Packing without cost when cash accompanies order.

The Hollandia Gardens, Inc.

South Vienna, O.

All plants are extra-heavy and ready for the field.

Taxus cuspidata browni,		
10 to 12 ins., 3-yr. T.T.	\$45.00	
Taxus media hicksii,		
10 to 12 ins., 3-yr. T.T.	40.00	
Taxus media Vermeulen,		
15 to 18 ins., 4-yr. T.T.	80.00	
Taxus cuspidata capitata,		
10 to 12 ins., 3-yr. T.T.	45.00	
Taxus cuspidata,		
10 to 12 ins., 3-yr. T.T.	40.00	
Taxus media hicksii,		
6 to 8 ins., 2-yr. T.	30.00	

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

## LINING-OUT STOCK.

Each

Euonymus patens larealeaf	\$0.06	
Rooted cuttings from sand	.15	
From 2 1/2-in. pots	.25	
From 3-in. pots	.25	
Euonymus radicans coloratus		
From 3-in. pots	.25	
Pfitzer Juniper, from 2 1/2-in. pots	.20	
Andorra Juniper, from 3-in. pots	.25	

Samples will be sent postpaid upon receipt of \$1.00 in currency to cover postage and packing. These prices are for any quantity. F.O.B. Kansas City, Cash, please.

GLASSCOCK BROS.

6119 Agnes Ave. Kansas City 4, Mo.

## ROOTED CUTTINGS.

Per 100 Per 1000

Biota aurea nana,	\$8.00	\$70.00
Biota excelsa	8.00	70.00
Biota aurea nana globosa,	8.00	70.00
Biota bonita	8.00	70.00
Biota fruitlandi	8.00	70.00

Packed in sphagnum moss, 100 in a package.

Cash, please.

BROEMER NURSERY CO.

Rt. 1, Box 155 Huntsville, Ala.

## UNROOTED CUTTINGS OF PFITZER

JUNIPER, 6 to 10 ins. long, not trimmed.

Moss packed; express only. \$10.00 per 1000.

Cash with order.

KRONE'S FLOWER SHOP

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ROOTED CUTTINGS—Taxus capitata and cuspidata, 6 to 8 ins., with lots of strong black roots, \$8.00 per 100. Also, Euonymus patens; Weller's Boxwood; Pfitzer, Andorra and Bar Harbor Junipers; Ilex rotundifolia; Cotoneaster horizontalis, same price. Fall delivery; cash, please.

SINGER GARDENS, Stamping Ground, Ky.

Thuja orientalis tatarica, Per 100 Per 1000

2-yr., 4 to 8 ins. \$3.00 \$25.00

Thuja orientalis aurea, 3.00 25.00

2-yr., 4 to 8 ins. 3.00 25.00

Many interesting variations in these. Many of the tatarica will show gold tips when mature.

The HARRIS GARDENS, Enterprise, Kan.

NATIVE WILD FLOWERING PLANTS.

Rhododendrons, Azaleas, Kalmia, Leucothoe and Tsuga canadensis. Evergreens, perennials, shrubs, trees, orchids, ferns and vines.

Send for wholesale price list.

THE THREE LAURELS

Marshall, N. C.

Pfitzer Juniper, unrooted cuttings, 7 to 10 ins., untrimmed. Expert packing, express shipment. \$10.00 per 100. Cash, please. Trial order will convince you.

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NANDINA DOMESTICA.

2-yr. seedlings. About 4 inches. \$10.00 per 100. Packed free, postpaid.

EASTERN SHORE NURSERIES, Inc.

Easton, Md.

ROOTED CUTTINGS OF PFITZER JUNIPER, dirt bed rooted, 6 to 10 ins. long, strong, \$15.00 per 100; \$150.00 per 1000. Cash.

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4221 Grand Ave. Fort Smith, Ark.

Our complete list of lining-out stock covering both broad-leaved and coniferous evergreens, shrubs, etc., is now ready for mailing upon receipt of your request.

T. G. OWEN &amp; SON, Inc. Columbus, Miss.

FOR IMMEDIATE SALE.

1-yr. nursery-grown Rhododendron seedlings.

Carolinianum, Catawbeense, Maximum.

Purchaser must call for his stock.

LOUIS A. HINDLA Bohemia, L. I., N. Y.

NANDINA SEEDLINGS.

Ready to pot, \$25.00 per 1000, postpaid.

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Knoxville 16, Tenn.

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ATTENTION NURSERYMEN!

SURPLUS OF 2-YR. APPLE.

Graded to A. A. Standards.

Twelve Leading Varieties

That Must Move This Fall.

Now booking for fall delivery at these attractive low prices:

7/16-in. cal., 3 to 4 ft. Each

9/16-in. cal., 4 to 5 ft. \$0.10

11/16-in. cal., 5 to 6 ft. .15

ALSO A LIMITED SUPPLY OF

2-YR. PEAR AND CHERRY.

Mail, Wire or Phone Your Requirements.

PACK TRUE-TO-NAME NURSERY CO.

Phone: 82Y

McMinnville, Tenn.

Member of Tennessee and

Southern Nurserymen's Associations.

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VINCA MINOR (myrtle or periwinkle)—

None less than 3 years old, with good roots.

15 to 30 canes to clump, individually made up, fresh-dug, \$37.50 per 1000. Prompt shipment.

Quantity orders solicited. 2 per cent cash discount. Also Pachysandra.

H. C. WAUGH

737 Greene St. Marietta, Ohio

VERONICA FILIFORMIS—The miracle ground cover; replaces lawn grass under large trees and other places where grass will not grow; blends into lawn; can be mowed like grass. \$2.00 per sq. ft. shipment in Sept. or later. The MITCHELL NURSERIES, Country Club Rd., Barre, Vt.

EUONYMUS RADICANS VEGETUS.

Per 100 Per 1000

Strong, 1-yr. cuttings. \$12.00 \$100.00

Rooted cuttings from sand. 8.00 75.00

Fall Shipment. 300 at 1000 rate.

PLANE VIEW NURSERY

Newport, R. I.

PACHYSANDRA TERMINALIS.

Strong, 1-yr. field-grown, \$65.00 per 1000.

2-in. potted, \$85.00 per 1000.

HILLCREST GREENHOUSES Franklin, Pa.

## HARDY PLANTS

Per 100

Bleeding Heart, 3 to 5 eyes. \$25.00

Bleeding Heart, 5 to 8 eyes. 35.00

Peonies in variety, also Iris and Lilies.

ROBINSON GARDENS

Scotts, Mich.

HARDY PHLOX.

Please ask for our new list on 1-year, field-grown Phlox.

WALTERS GARDENS

Rt. 2 Zeeland, Mich.

## PHLOX SURLATA (Moss Phlox).

Large, healthy, undivided field-grown clumps. Per 10 Per 100

Alba, pure white. \$1.50 \$12.00

Atropurpurea, wine-red. 1.50 12.00

Blue Hill, soft, pale blue. 1.50 12.00

C. F. Wilson, the best blue. 1.50 12.00

Fairy, rich lavender. 1.50 12.00

Lilacina, lilac-blue. 1.50 12.00

Moerheim, deep salmon-pink. 1.50 12.00

Rosa, bright rose. 1.50 12.00

Vivid, vivid pink with darker eye. 1.75 15.00

Amoena, clear pink, 6 ins. tall. 1.50 12.00

Terms: Cash with order, or 25 per cent, balance C.O.D. Shipments begin Sept. 15.

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Rt. 2 Zeeland, Mich.

Note: Formerly Knoll &amp; Walters Perennial Farm. No change in management, just change of firm name.

## LINING-OUT MATERIALS.

10,000 Delphinium Pacific, white.

45,000 Delphinium Pacific Hybrids, mixed.

25,000 Chelranthus allioni.

80,000 Carnations, mixed.

25,000 Carnations, red.

15,000 Carnations, white.

15,000 Carnations, Rose Queen.

10,000 Carnations, King of the Blacks.

35,000 Iberis sempervirens.

100,000 Aquilegia, Scott Elliott's, mixed.

Write for special prices. Not less than 1000 sold of any variety.

MONARCH PLANT FARMS,

Kalamazoo 99, Mich.

## LYTHRUM MORDEN'S PINK.

Strong rooted cuttings.

Immediate shipment.

\$8.00 per 100, \$75.00 per 1000.

300 at 1000 rate.

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New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

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Dicentra spectabilis, 3 to 5-eye. \$25.00

Dicentra spectabilis, 5 to 8-eye and up. 35.00

Dicentra eximia, 3 to 5-eye. 15.00

Dicentra eximia, 5 to 8-eye and up. 20.00

J. HENDRIKS, Grower Portage, Mich.

## PHLOX.

Be sure you have our new list of Hardy Phlox and other perennials before you place an order for your plants this fall. Write for list. Shipping will begin September 15.

HENRY LE POIRE, Rt. 2, Zeeland, Mich.

America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

## HARDY PLANTS.

Please write for our new list of perennial plants.

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HARDY FERNS, \$7.00 per 100.

Ostrich, Clayton, Lady and Maidenhair.

Peonies, 35c; Iris, 10c; Phlox, 15c, any color.

STRAND NURSERY CO. Taylors Falls, Minn.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

## HOLLY

ILEX OPACA. Large, old, XXXX specimens, 10 to 14 ft. high, 9 to 14 ft. broad; dense over-all. Wonderful root systems in clay; no taps. Balled, platformed and loaded; 1 to 5 tons each. Expert baling by foreman with 25 yrs. experience. Well berried females, \$65.00 to \$135.00 each. Males, 75 per cent less. Rooted cuttings from best variety types; guaranteed female (berry-bearing), 1 to 2-yr., knocked from 3 to 7-in. clay pots; 4 to 8 in.; \$225.00 per 1000. 8 to 12 in.; \$500.00 per 1000. F.O.B. Ask for booklet "XB" Holly.

EARLE DILATASH, Holly Specialist

(On Rt. 25) Robbinsville, N. J.

ILEX DECIDUA.

Bears masses of red berries that hang all winter. Hardy, transplants well, good retail seller. 1-yr. seedlings, 6 to 12 ins. 15c. Fall or spring shipment. Heavily berried demonstration plant free with 300 and up. Free descriptive circular.

NOBLE NURSERY

Noble, Okla.

## ROSEBUSHES.

Fall, 1950. Spring, 1951.

A wise man once said, "There is no substitute for quality." The same holds true today. We specialize in quality, not quantity rosebushes. As a consequence we never have enough and, more especially, this year when everyone has a short crop. Don't be one of the many who will get a "Sorry, sold out" when they order roses this fall.

Write today for prices and variety lists.

NEW LONDON ROSES

Box 876 Overton, Tex.

## ROSEBUSHES—Continued

## ROSES.

Arp-grown with life insurance. Write for trade list while variety assortment is still good. Texas state pecan trees, black and English walnuts, fig and persimmon. Licensed contract production of All-America roses.

ARP NURSERY CO.  
Box 867 Tyler, Tex.

## SEEDS

## BE FIRST!

Seedsmen and Catalog Houses. Seeds of these petunias are scarce. These types will grace your catalog in the near future:

Royal Chinook, small, single, dwarf, compact salmon.  
Bill Silva, small, double, dwarf, compact salmon.

Redwood Empire Mix, new pastel colors in mix.  
Pride of Santa Rosa, large, striped, single and double.

These petunias were developed, created and hybridized at our breeding grounds.

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408 Water Trough Rd., Sebastopol, Calif.

## HARDY TREE SEEDS.

New Crop from Japan. Per lb.  
Taxus cuspidata ..... \$4.50  
Viburnum odoratissimum ..... 4.25  
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Torreya nuffera ..... 2.00  
Rosa multiflora ..... 3.00

For immediate delivery, F.O.B. Chicago.

YOKOHAMA NURSERY CO.  
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## NORTHERN EVERGREEN SEEDS.

Orders booked now for 1950 crop. Our twenty-fifth year. K. J. BRADEN, Box 187, Milton, N. H.

Absolutely finest-quality panay seeds, named varieties and blends, own breeding. Send for color-illustrated grower's catalog. THE CLARKES, Box 440N, Clackamas, Ore.

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## LINING-OUT STOCK.

We offer for fall delivery Chinese Chestnuts; Native Shrubs, Trees and Evergreens; Flowering Peach and Ornamental Plums, and Fruit and Shade Trees. Top-quality, dependable plants at reasonable prices.

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## RED JAP. MAPLE SEEDLINGS.

Carefully selected for color. Per 100  
10 to 12 ins. XXX ..... \$40.00  
8 to 10 ins. XXX ..... 30.00  
6 to 8 ins. XXX ..... 25.00

Delivery fall or spring.  
ELWOOD HUBBS  
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Plenty of Pflanzers, and good ones, too. 18 to 24 ins., \$325.00 per 100; 24 to 30 ins., \$425.00 per 100.

Euonymus patens, 15 to 18 ins., 75c ea.  
Magnolia stellata, 18 to 24 ins., B&B, \$4.00 ea.; 2 to 3 ft., \$5.00 ea.  
Mixed Narcissus, for naturalizing, \$20.00 per 1000.

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Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, garnished with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

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High nitrogen—quality peat. Reliable, economical, 98 per cent organic, pH4. Serving leading nurseries over 30 years. OUR BAGS ARE HUGE!

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Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

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16x12x2 1/2 ..... \$18.82 per 100  
18x14x3 ..... 24.98 per 100  
20x14x2 1/2 ..... 24.56 per 100  
20x14x3 ..... 28.68 per 100  
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22x15x3 ..... 32.63 per 100  
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We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

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3 1/2 x 5 ins., notched, not wired ..... \$2.50  
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Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.  
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SACRIFICE SALE . . . Save \$175.00 on brand-new BES — CUB Portable Aerosol Sprayer for greenhouses, nurseries, etc. Saves time, labor . . . treats average 150-ft. greenhouse in 7 to 10 minutes! Also can be used for paint spraying, whitewashing, etc. Powered by 1 1/2-h.p. gas engine. Formerly \$275.00; now only \$99.75 complete, F.O.B. Emeryville, Calif. Engine and compressor alone worth over \$100.00! Rush order now; only a few left at this sacrifice price. Write today! Address Box 739, care of American Nurseryman.

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Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.

Catalog on request.

Since 1900.  
TYSON ORCHARD SERVICE  
Flora Dale (Adams County), Pa.

## MINNESOTA WHITE CEDAR FLATS.

12x16x2 1/2 ..... \$18.25 per 100  
14x20x2 1/2 ..... 22.00 per 100  
14x20x3 1/2 ..... 25.00 per 100

Other sizes quoted on request. Also crating and other lumber. Also Pine. F.O.B. Cook, Minn. Please attach check.

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Moss.  
Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.  
Trucked when feasible.

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PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Bioters, Folders, Samples sent.  
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Marsh Hay, wire-baled, \$12.00 per ton.  
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PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. ANTHONY & CO., Escanaba, Mich.

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## AMERICAN NURSERYMAN

343 South Dearborn St. Chicago 4, Ill.

## NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummel, Rummel & Snow, Chicago patent lawyers:

No. 937. Lilac plant. Walter Bosworth Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., San Jose, Calif. A new variety of Syringa vulgaris plant, characterized by the size and distinctive red-purple color of its blooms and the uncrowded distribution of its florets in the cluster.

No. 938. Rose plant. Herbert C. Swim, Ontario, Calif., assignor by mesne to Inter-State Nurseries, Inc., Hamburg, Ia. A new and distinct variety of rose plant, characterized as to novelty by the unusual brilliance of the color of the flowers; exceptional vigor for a plant of its type; the large number of petals and regularity of their arrangement, which gives the appearance of a camellia bloom at one stage of development of the flower; abundance of the foliage, and continuity and abundance of the flowers.

No. 939. Flowering crab apple tree. Arie F. den Boer, Des Moines, Ia., assignor to John J. Grullemans, Mentor, O. A new and distinct variety of ornamental flowering crab apple tree, characterized as to novelty by its habit of slow growth, extreme hardness, the color of its open blossoms, in part semidouble, and the dark coloring of its foliage.

No. 940. Flowering quince plant. Walter B. Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., San Jose, Calif. A new and distinct variety of flowering quince plant, characterized particularly by the unusual color of the flowers, shading from dark pink tips to white centers; their large size, floriferousness and the continuously long blooming period.

No. 941. Flowering quince plant. Walter Bosworth Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., San Jose, Calif. A new and distinct variety of flowering quince plant, characterized particularly by the intense red coloring of the flowers; the broad overlapping petals with ruffled outer marginal end portions; the erect, vigorous growth of the bush, and its profuse midseason blooming.

No. 942. Rose plant. Josephine D. Brownell, Little Compton, R. I. A new variety of rose plant, characterized by the unique color of its stamens; its 7-leafed leaves; its resistance to cold, and its unique bloom clusters.

No. 943. Rose plant. Walter L. Lammer, La Canada, Calif., assignor, by mesne assignments, to Descanso Distributors, Inc., La Canada, Calif. A new and distinct variety of rose plant, characterized as to novelty by its vigorous, upright, pillar type of growth; by its habit of flowering as abundantly the first season as does a hybrid tea rose; the urn-shaped buds; the production of as many as fifteen to twenty flowers on vigorous stems; the form and color of the high-centered flowers; the lasting quality and attractive fading character of the cut flowers; its large, leathery, glossy and disease-resistant foliage, and the absence of thorns on the flowering stems.

No. 944. Rose plant. P. J. Howard, Los Angeles, Calif., assignor to Paul J. Howard's California Flowerland, Los Angeles, Calif. A new and distinct variety of hybrid tea rose plant, characterized particularly by its profuse and continuous blooming habit, its vigorous upright

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NCB-2 at Bordine  
Greenhouse,  
Rochester, Mich.

## Use Your Man Power to Produce Plants

### — not Compost

Man-hours used for preparing compost are reduced as much as 89% when you use a Royer Compost Mixer . . . with a corresponding reduction in labor costs. One or two men can produce as much material as a good sized gang using manual methods . . . thus freeing the extra men for plant production and flower care.

The quality of your compost is improved, too. The finished product is smooth, fluffy and uniformly sized . . . ready to use . . . spreads evenly, holds moisture and yields nutrition.

Many sizes and models available. Write for Bulletin 46 giving full information.



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182 PRINGLE ST., KINGSTON, PA.



growth, its bronzed stems and its flowers with loose, open form, spicy fragrance and cherry-red color, which does not turn blue with age.

No. 945. Begonia plant. Helen H. Lewis, Rivera, Calif., assignor to Lewis Gardens, Rivera, Calif. A new and distinct variety of hybrid begonia plant, characterized particularly by its low-branched habit of growth, the rapidity and ease with which it is propagated and grown, its disease resistance and the glossy appearance, dark red color and maple-like cut of its medium-size leaves.

No. 946. Lilac plant. Walter B. Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., San Jose, Calif. A new and distinct variety of *Syringa vulgaris* plant, characterized as to novelty by the large size of its florets, their tendency to open in flat form, the uniformity of its distinctive purple coloring from bud stage to the fully open flowers and its long blooming season.

No. 947. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized as to novelty by the unusual combinations of coloring of the flowers at the different stages of development, together with the contrasting colors of the petals and the filaments and anthers in the mature blooms, and by the predominance of seven leaflets on all shoots and growth of the plant.

HAVING suffered a heart attack in June, Harry Franklin Baker, St. Paul, Minn., was hospitalized most of last month, but is now back on the job.



**ONLY \$22.50**

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Water falls gently like rain — yet abundantly—with perfect distribution. Two sizes available—for 1500 and 2500 sq. ft. areas. Both instantly adjustable for any desired width. Operates on any pressure from 15 lbs. up. Lasts a lifetime. Sold at low factory-to-you price on money-back guarantee. Send check or money order—otherwise shipped C.O.D. State size wanted. Shipping weight: 35 lbs. Illustrated folder available. Pioneers in overhead irrigation and supplies since 1936.

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- "HOLLANDIA" BURLAP SQUARES  
New Material, Soft, Easy to Tie; Saves Time, Labor and Twine.
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# New Books and Bulletins

## NEW SUNSET BOOKS.

Those seeking suggestions as to plant and construction materials for planning the home grounds will find a generous source in "Sunset Ideas for Landscaping Your Home," containing sixty-four pages and more than 250 illustrations and priced at \$1 per copy. This is the tenth of the Sunset books on homes and gardens, containing material from Sunset magazine, published by the Lane Publishing Co., San Francisco 11, Calif. These books measure 8 1/4 x 11 inches in page size and are bound in stiff paper covers attractively printed in colors.

Also recently off the press is a complete revision of the "Sunset Barbecue Book" of ninety-six pages, priced at \$1.50.

Western nurseries have found these books in demand with their customers, and a number have installed racks in their stores for displaying the books and stimulating their sale. Thus the nurseryman makes a profit on sales of the books, while he encourages his customers to do more and better gardening.

## HUNGER SIGNS IN CROPS.

New and up-to-date information about crop needs is included in the 370-page, revised edition of "Hunger Signs in Crops," recently reissued by the National Fertilizer Association, Washington, D. C., at \$4.50. Illustrated with 110 color plates and also with black and white pictures, the book was written by several well known specialists in plant nutrition, horticulture and agronomy, and it emphasizes the fact that many so-called hunger signs or symptoms of deficiencies in the plant's food.

## ROADSIDE DEVELOPMENT.

Proceedings of the ninth short course on roadside development, held at Columbus, O., last March, are available in a mimeographed book of 122 pages, 8x10 1/2 inches, containing a valuable series of papers on various aspects of highway development, as well as discussions relevant thereto. Copies of the report may be obtained from Prof. Charles R. Hutton, department of architecture and landscape architecture, Ohio State University, Columbus 10, O., or Wilbur J. Garmhau-

sen, chief landscape architect, Ohio department of highways, Columbus 15, O.

## SPRAY FORMULAS. FOR MIST BLOWERS.

"Concentrated Sprays for Application by Mist Blowers for Control of Forest, Shade and Fruit Tree Pests" is the title of a 20-page circular, No. 177, recently written by S. F. Potts, bureau of entomology and plant quarantine, United States Department of Agriculture, and Dr. Philip Garman, entomologist at the Connecticut state agricultural experiment station, which is obtainable from the Connecticut agricultural experiment station, New Haven.

Formulas are given for such insecticides as the arsenicals, mineral oils, tetraethyl pyrophosphate, Parathion and the dinitro compounds. Tables are included listing dosage re-

quirements, tree pests of the Connecticut region and suggested sprays for their control. Many of the formulas can be applied by aircraft, even though they are designed especially for use in mist blowers.

The formulas listed do differ from those applied by conventional hydraulic sprayers. The principal difference is in the quantity of spray necessary for satisfactory pest control. For example, 500 to 700 gallons of spray is necessary to cover an acre of woodland with a hydraulic sprayer, but one gallon of spray will do the job in the mist blower, because highly concentrated insecticides or fungicides are used in an exceptionally fine mist. Orchards need more gallons of spray, and large trees require from thirty to 100 gallons for each acre.

STARTED two years ago, the River Bend Nursery, Route 1, Box 103, Hales Corners, Wis., will start sales in the spring. Harry Barwick is the proprietor.

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1950 Crop	Per bu.
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CLEVELAND, TENN.**SEEDS****Collectors of Tree, Shrub and  
Wild Flower Seeds***Crude Drugs and Ornamentals***E. C. MORAN** Stanford, Mont.**DDT DOES NOT KILL BIRDS.**

DDT used to destroy mosquitoes in wildlife areas does not endanger or drive away the wild birds according to a special report released by the Illinois Natural History Survey last month.

A series of tests was made last summer in three selected areas of the Cook county forest preserve, which were treated with varying concentrations of DDT to determine its effect on bird, plant, insect and aquatic life.

Wild birds apparently were completely unaffected by repeated applications of the insecticide in the areas in which they nested and roamed. The birds seemed to find plenty to eat and showed no tendency to migrate.

Those facts were ascertained by repeated bird counts in areas treated with DDT and in other sections purposely left untreated. Bird populations were about the same in both areas.

In one test an area was "misted" three times with DDT from a blower. Surface insects on the water were practically annihilated on the river, and land insect life decreased markedly in areas which received direct hits from the blower.

In another test, a DDT fog created by the application of one-half pound of the insecticide suspended in oil to the acre was blown over a section of woods. Well hit areas showed a drop of thirty-five per cent in land insect life, but the birds showed no ill effects from the treatment.

**CATALOGS RECEIVED.****WHOLESALE PRICE LISTS.**

Bryant's Nurseries, Princeton, Ill.—Evergreens and peonies; 8 pages and cover, 6x9 inches.

Semmes Nurseries, Semmes, Ala.—Camellias, azaleas, magnolias, hemerocallis, evergreens and deciduous stock; illustrated; 56 pages, 4x9 inches.

**RETAIL CATALOGS.**

Jackson &amp; Perkins Co., Newark, N. Y.—Roses and perennials; handsomely illustrated in color; 48 pages, 9x11 1/4 inches.

Whitten Nurseries, Bridgman, Mich.—Evergreens, fruit trees, ornamental trees, shrubs and vines, perennials and bulbs; illustrated; 24 pages, 8x11 inches.

NEWLY licensed is the Ivy Lodge Nursery at 323 Greene street, She-ran, S. C.

FOLLOWING upon his 4-year-old hobby of raising evergreens, S. Nathans has founded the Cabot Evergreen Co., 182 Beauchamp terrace, Chicopee Falls, Mass.

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## Use of Parathion

### CLAIMS FOR PARATHION.

Numerous claims have been made for the insecticide Parathion. Those acceptable for labeling Parathion were announced June 30 by the insecticide division, Production and Marketing Administration, United States Department of Agriculture, under the insecticide, fungicide and rodenticide act of 1947. The American Cyanamid Co., New York, has published a 4-page folder of these claims, which includes the following information for growers of ornamentals and fruit crops.

In the following Parathion sprays, a dose is given in terms of fifteen per cent wettable powder; use three-fifths the quantity for a dose given in terms of twenty-five per cent wettable powder.

For spraying outdoor ornamentals: Use one pound wettable powder to 100 gallons to kill aphids, white flies, spider mites and leaf hoppers; repeat the application within seven to ten days on spider mites and leaf hoppers. Use one and three-fourths pounds to 100 gallons, and repeat the application in three weeks, if necessary, to kill mealy bugs, scales and leaf tiers in the young or crawler stages.

Parathion dust is also effective on outdoor ornamentals. Apply twenty to thirty-five pounds of one per cent dust per acre and repeat at 7 to 10-day intervals to control spider mites and leaf hoppers. Thirty-five to forty pounds of one per cent dust per acre will control mealy bugs and leaf tiers. Variation of the poundage is determined by the size of the plants.

Wettable powder sprays of Parathion will control a number of insect pests on various fruits and nuts. On the following deciduous fruits use the dosage as prescribed within thirty days of harvest.

Apple. For control of codling moth, plum curculio, orange tortrix, San Jose, Forbes and scurfy scales, red-banded leaf roller (second and third brood), woolly apple aphid and mealy bug, use one and three-fourths pounds to 100 gallons. For control of bud moth, red bug, fruit tree leaf roller, rosy apple aphid, green apple aphid, red-banded leaf roller (first brood), grasshoppers, European red mite, two-spotted mite, Pacific mite, Schoenii mite, Willamette mite and clover mite, use one pound to 100 gallons. For certain mites such as two-spotted and Willamette, repeat applications at 7 to 10-day intervals.

Pear. For control of pear blister mite, use one and three-fourths pounds to 100 gallons in preblossom spray. For pear psylla use one pound to 100 gallons, either in preblossom or postblossom sprays. For control of codling moth, mealy bug, woolly aphid and certain spider mites, use dosage listed under apple.

Peach. For control of plum curculio, Oriental fruit moth, San Jose scale, peach tree borer and cat-facing insects, use one and three-fourths pounds to 100 gallons. For control of fruit tree leaf roller, cottony peach scale, green peach aphid and spider mites, use one pound to 100 gallons.

Prune and Plum. For control of plum curculio, use two pounds to 100 gallons. For control of bud moth, mealy plum louse, tortrix, leaf roller, leaf hoppers, aphid and spider

mites, use one to one and three-fourths pounds to 100 gallons.

Apricots. For control of codling moth, Oriental fruit moth and tortrix, use one and three-fourths to three pounds to 100 gallons. For bud moth, fruit tree leaf roller, spider mites and aphid, use one pound to 100 gallons.

Cherry. For control of plum curculio, cherry fruitworm, Oriental fruit moth, bud moth, tortrix and cankerworm, use one and three-fourths pounds to 100 gallons. Use three-fourths to one pound for aphid and mite control.

Grape. For control of mealy bug and leaf folder, use one and three-fourths pounds to 100 gallons; repeat one pound at five to seven days for mites. Apply before fruit is size of buckshot or after harvest.

Blueberry. For maggot and thrips

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control, use one and three-fourths pounds to 100 gallons before fruit sets or after harvest.

**Strawberry.** For control of leaf roller and red spider mite, use one to one and three-fourths pounds to 100 gallons and repeat at 7 to 10-day intervals. Apply before fruit sets or after harvest.

**Beans.** For control of Mexican bean beetle, leaf hopper, aphid, red spider, army worms, leaf roller and leaf miner, use one pound to 100 gallons. Repeat at 7 to 10-day intervals.

**Walnut.** For control of aphid and red spiders, use one pound per acre. Repeat at 7 to 10-day intervals for red spider. Use twelve pounds per acre for control of codling moth.

Parathion dust proves effective on fruits, nuts and forage crops if applied as follows:

**Strawberry.** For control of red spider and aphid, use twenty to thirty-five pounds of one per cent dust per acre; repeat against red spider in seven to ten days.

**Blueberry.** For control of thrips and maggots, use thirty pounds of one per cent dust per acre.

**Grape.** For control of red spider mites, leaf folder and mealy bugs, apply twenty-five pounds of two per cent dust per acre. Repeat in five to seven days for red spider mite control. Make no applications after berries are the size of buckshot or before harvest.

**Walnut.** For control of aphid and red spider, apply one per cent dust; repeat in seven to ten days against red spider.

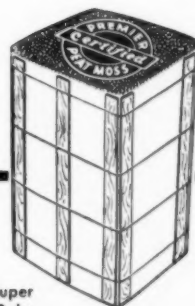
Nurserymen who grow such cover crops as vetch, alfalfa, clover, wheat, oats and barley may find these recommendations of value. For control of aphid, army worms, blister beetles and grasshoppers, apply fifteen to twenty-five pounds of two per cent or twenty-five to forty pounds of one per cent dust per acre, depending upon infestation. Make no applications within fifteen days of cutting or forage use.

#### PARATHION PRECAUTIONS.

Parathion has proved to be one of the most effective chemical controls of a number of nursery insects, but at the same time it is a deadly poison. In view of the known hazards to those handling this material, precautions to be taken when using Parathion are emphasized wherever its use is recommended. The following, to be observed in the field application of Parathion, was drawn up by the department of entomology

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of the Ohio agricultural experiment station, Wooster, and distributed to nurserymen by Dr. R. B. Neiswander when he spoke at the Ohio short course for nurserymen earlier this year:

1. Parathion formulations used in field applications should be limited to fifteen per cent Parathion wettable powders applied as sprays. At the present time dusts are not recommended.

2. Parathion materials should be weighed out and mixed in the open air when possible, otherwise in well ventilated quarters. In handling such materials workmen should protect their eyes with goggles and should wear dust respirators approved by the United States Bureau of Mines.

3. In making spray applications of Parathion the operator should have his body completely protected from the spray and should wear gloves made from natural rubber. He should spray with the wind and be careful to avoid any spray drift. Following field application of any organic phosphate materials workmen should take showers, washing thoroughly with soap and water, and should change to other clothes. All paper bags that contained any of these materials should be destroyed by burning.

4. In using aerosol bombs containing Parathion in greenhouses or other enclosed buildings, the operator should wear a tight-fitting, full-vision gas mask equipped with a canister specified for use in organic vapors or acid gases and approved for this purpose by the United States Bureau of Mines.

5. In case accidents occur in which operators are suddenly or unduly exposed to either sprays or dusts, they should wash thoroughly and change clothing immediately.

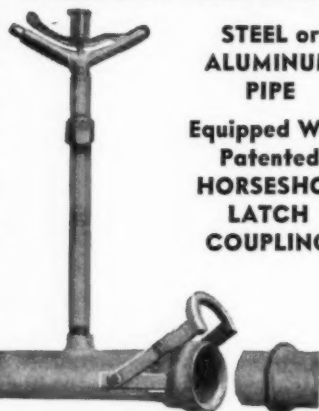
6. If, after handling Parathion or similar formulations, an operator

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should develop symptoms of headache, shortness of breath, tightness of the chest, pinpoint pupils, giddiness, nausea or related symptoms, he should stop work and contact a physician immediately.

7. Because the effect of Parathion is stimulation of the parasympathetic system, the physician should be advised that atropine in large therapeutic doses should be administered and repeated as necessary to the point of tolerance. Following the administration of atropine the operator should not resume exposure to the material for several days, as the effect of the atropine could mask the danger from the poison.

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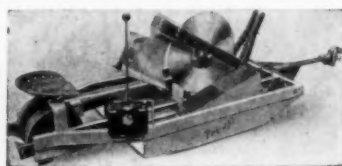
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## PLANT NOTES.

[Continued from page 19.]

flowers of a warm red shade had appeared in European nurseries; so we can only hope that they show up on this side of the Atlantic. The greatest value of *D. fruticosus*, it seems to me, is in its late flowering, which it sometimes continues right up to late autumn.

### *Dianthus Pyridicolus Pastel.*

I have seen lately in two or three gardens a little pink under the label *Dianthus pyridicolus Pastel*, a plant that intrigued me not only by its beauty but also by its name. At the outset let us dispose of the latter. As I know so little about the naming of pinks, let us call upon Dr. Bailey, who wrote as follows, back in 1938, "Pyridicola, listed name, plant said to come from Greece; pinks I have grown under this title are *D. viscidus*, var. *grisebachii*; *D. pyridicola*, *patitmangin*, *nomen nudum*." I might add here that *D. viscidus* is a clusterhead; so our present plant cannot be that. Looking further afield, I find Mrs. Wilder's writing in 1923; when speaking of *D. prichardi*, she said, "A tiny, restrained deltoides with fiery crimson, round blooms. A very good sort for a stony, sunny slope. I suspect this of being the same plant now offered as *D. pyridicola*, as *D. prichardi* has disappeared from catalogs, and *D. pyridicola* has appeared with a description that is identical." It is interesting to note in this connection that some American nurserymen commenced in the 1920's to give the name *prichardi* to a plant similar to or identical with *D. deltoides serpyllifolius*. But *D. prichardi* is correctly a race of border pinks grown by Prichard & Son, in England, in singles and doubles, clove-scented, in a number of named forms. This is becoming somewhat confused and would become even more so if we followed it through to a conclusion and included a host of other such names, as *peristeri* and *supinus*; so let us drop the matter here, with the remark that you could call the plant a form of *D. deltoides* and be not far wrong.

Perhaps of more interest to the plant grower is the fact that in American trade he can find a little pink of *deltoides* persuasion listed under the name *D. pyridicolus Pastel*, which should add a flip to his sales of pinks. He will find the usual *deltoides* leafage, though it is soft green in this case and smaller than usual, with sprays of pastel-pink flowers throughout the long *deltoides* season. And this variety has the

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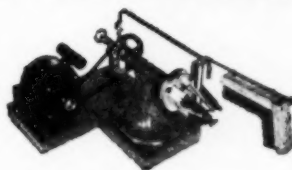
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same amiable disposition as the maiden pink.

### Dianthus Pink Lady.

I had not meant to make this an article on pinks, but while on the subject I should like to include a new-named form of border pinks, Pink Lady, which has given a good account of itself this year. The flowers are perfectly double; the color is clear; the stems, though wiry, are strong enough to hold their burden, and the pretty gray-green tufts are apparently resistant to disease. From all appearances it is a splendid addition to our list of garden pinks.

### Ground Covers for Bulb Beds.

A reader asks for a good blue-flowered plant to be used as a ground cover in bulb beds, and I recommend these two speedwells:

*Veronica pectinata* is a creeper that spreads into low, dense, hairy mats of grayish leaves and is an ideal cover for bulbs, especially the larger ones that do not object to a heavy carpet. Its sprinkling of pale blue saucers in June adds a bit of color to that part of the garden after the bulbs have gone to rest. Its ability to grow on little moisture makes it ideal for this purpose.

For the small bulbs, one would go far to find a better plant than the little *V. repens*, were it not for the fact that its shallow-rooting habit calls for moisture throughout the growing year. That same shallow rooting means a good companion for any tiny treasures among the bulbs that resent deep-rooting kinds growing above them. We can compromise, then, by using the speedwell with kinds which do not demand a thorough baking during the summer. It is, in fact, a plant that may be widely used in the garden as well as in the bulb bed as a ground cover. For instance, it is one of the best for planting in the joints of stone steps or for covering any

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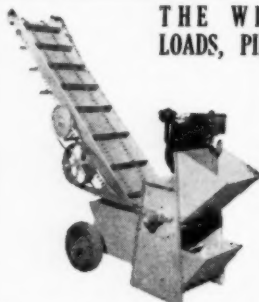
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spot in the rock garden, either in sun or in part shade. It has pale blue or milk-white flowers that grow on low, 2-inch stems above sparse mats of little green leaves. It flowers abundantly in May and June and often more sparingly from then onward.

## Navelworts.

It is encouraging to note that a few American catalogs list the so-called creeping forget-me-not, *Omphalodes verna*. This is encouraging, not only because we are coming to appreciate the plant's beauty and usefulness, but also because these catalog listings lead one to the hope that, once having come under the charm of *O. verna*, our gardeners will search out others of its race. Our present plant is easy to manage in a partly shaded spot and leafy soil that is not allowed to become too dry, and it is perfectly hardy this far north. It is stoloniferous and spreads into broad patches and lights up the spring landscape with its azure-blue flowers.

Another easily grown navelwort, *O. nitida*, either proved not hardy here, or we treated it incorrectly. I suspect it was the former, for I hear from others that it is easy to grow under the same conditions given *O. verna*. There seems to be some confusion in gardens about what is *O. nitida*, but that is not necessary if one remembers its description: Narrow, oblong leaves, glabrous above and pubescent below, pale green in color and gathered into compact tufts instead of creeping, as in the other. The sky-blue flowers come in racemes much later than any other commonly grown kind. In passing, it may be said that the botanists now call the plant *O. lusitanica*.

Also, *O. cappadocica*, *O. cornifolia* of some, and *O. luciliae* are to be recommended to those seeking a difficult task with abundant rewards to the successful. Not only are these plants unusually beautiful, but they are unusually hard to manage in this climate. I have never been able to do anything with them in the open; others tell me the same story, and literature is full of similar reports. Both are said to do best in a wet moraine. If what I have seen of the beautiful, flat, pale blue flowers of *O. luciliae* is a sample of what the plant is capable of under the right conditions, it would most assuredly be worthy of anyone's efforts.

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## THE BEST IN TAXUS.

[Continued from page 17.]

spect. The foliage is perhaps its outstanding characteristic. *Taxus media henryi* has been suggested as a good addition to this group, but I have not had experience with it.

In the second category in this size group, those types showing a more rapid-growing, broad, bushy, upright-spreading habit of growth, only one type, the spreading Hatfield Anglojap yew, is listed. While there are many types coming within this classification, few of them possess outstanding characteristics. The spreading Hatfield Anglojap yew is a good grower, fills out well and has attractive foliage. In habit of growth it is much like the common spreading Japanese yew, *Taxus cuspidata expansa*, but it is more uniform and more compact and has better foliage.

Two other types that give promise in this class are *Taxus media densiformis* and *Taxus media wymanii*. I have not had sufficient experience with them to rate them properly.

In the narrow upright category, three types, differing considerably in form and foliage, are included. *Taxus baccata fastigiata*, the Irish English yew, is perhaps too susceptible to winter injury to recommend, but I have been pleasantly surprised how well it has done in our arboretum. Only once since it was planted, in 1942, has it shown any appreciable amount of winter burn, and then it was not noticeable after mid-summer. Apparently, less injury can be expected under landscape conditions than in the nursery. This variety is narrow upright, with nearly parallel sides. The foliage is dark green and somewhat whorled. Growth rate is medium to slow. It is the narrowest of the upright yews. If this plant is used, keep it in protected situations out of wind-swept areas. *Taxus cuspidata columnaris*,

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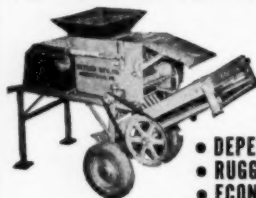


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column Japanese yew, is broader than the Irish English yew. It is inclined to develop a broader top than base, with the foliage sparse at the base. The foliage is medium to dark green. The growth rate is medium.

Probably the best known and most popular of the varieties in this group is the Hicks Anglojap yew, *Taxus media hicksi*. The Hicks yew possesses both good and bad characteristics. It has excellent, dark green foliage, is hardy and develops at a medium growth rate. In its natural habit of growth, the plant is much broader at the base than top. It has a tendency to develop multiple leaders, thus presenting some snow problem, and often pulls apart with age. The Hicks yew can be pruned into a globe form or to a single leader. While the single leader plants develop slowly, they are much superior to the multiple leader plants.

**Medium Types, 6 to 10 Feet.**

Only one type is included in this category, *Taxus media hatfieldi*, the Hatfield Anglojap yew. This is probably the best of the pyramidal upright yews. For a medium-size plant it is superior to *Taxus cuspidata capitata*. It has dark green, whorled foliage. The growth rate of this type is slow to medium. It is better as a hedge plant than *Taxus media hicksi*. It is reported as being intolerant of salt spray and may show some injury in the colder climates.

**Large Types, 10 to 25 Feet.**

Another common and popular yew is the upright Japanese yew, *Taxus cuspidata capitata*. It is often restrained by pruning to come within the medium-size group. The foliage is medium to dark green, and the plant is medium to rapid in growth rate. This type will not stand so heavy shade as some of the spreading types.

Thus, I have attempted briefly to describe the best of the taxus. Undoubtedly, as time goes on, some changes will be made in the selected list. More varieties and clones are not needed simply to add to the list, but better types are needed as substitutes in some of the growth habit categories.

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[Continued from page 9.]

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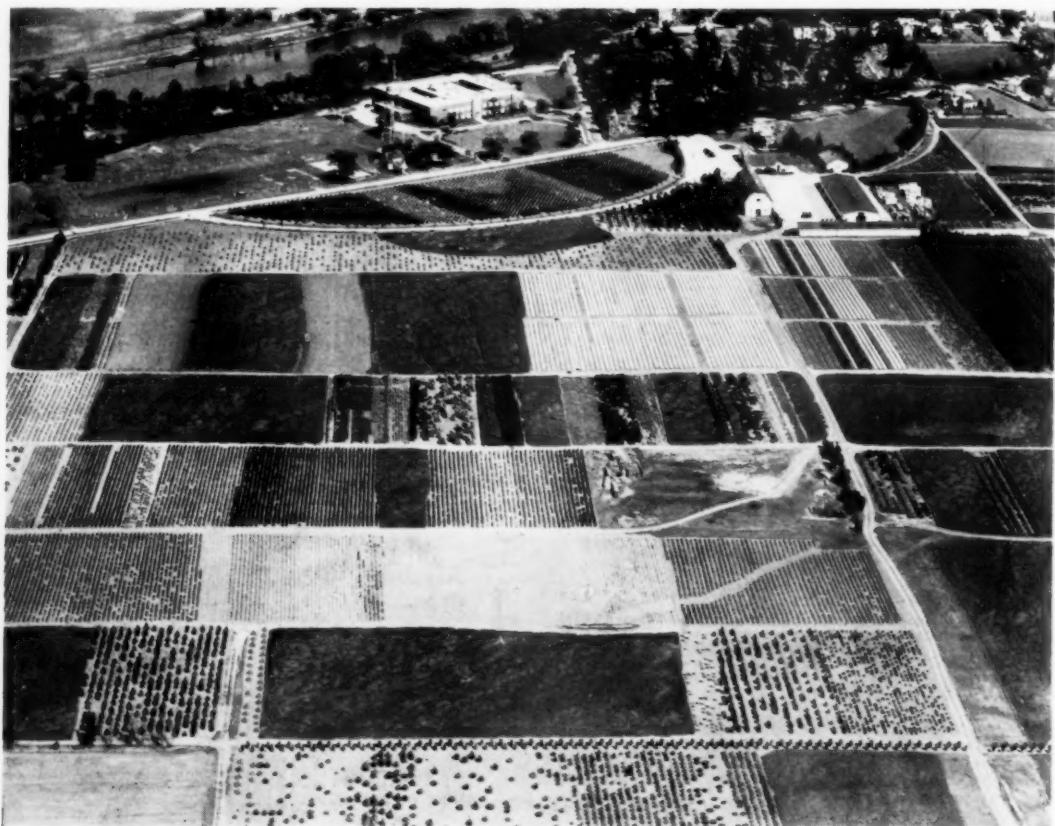
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